

ELECTRONIC MESSAGING SYSTEM AND METHOD THEREOF

Field of the Invention

The present invention is in the field of electronic messaging system operatively integrated in the network arena encompassing the wired and wireless space.

Background of the Invention

The commercial electronic messaging market has experienced significant growth in the past few years. Jupiter Communications projects another 40-fold of increase in growth in this area; particularly, in commercial e-mail volumes, primarily because e-mail is a cost-efficient, highly effective response-rate system and method by which to make contact with, acquire, cultivate and retain customers, for promoting and selling products/services, building loyalty and reinforcing brand identity.

The current and projected growth in commercial emessaging volume increasingly strains user patience and impacts marketing effectiveness of this medium of communication. For example, the average number of commercial e-mail messages that consumers receive was 40 over the course of 12 months during 1999, excluding unsolicited e-mail or "spam" in the form of chain letters, duplicate postings, etc. By 2005, the average number of commercial e-messages alone is projected to grow to more than 1,600 annually. This translates to 4.4 commercial e-messages per day per average user. Overall, non-marketing e-mail and other e-

mail correspondence of a personal nature will also grow significantly by more than doubling from 1,750 in 1999 to 4,000 per year in 2005.

The consequence of this rapid growth is that users face a virtual avalanche of e-messages, much of it irrelevant to their needs, as for the most part they did not request the received information, i.e., it is "spam," the electronic form of "junk mail." For legitimate businesses, the key challenge will intensify, of achieving efficient response rates and maintaining effective, high quality, two-way interaction with customers and prospects.

"Permission-based" or "opt-in" e-marketing entails users granting permission for companies to send advertisements and other commercial messages via e-mail or other forms of eMessaging. Opt-in e-mail is largely used to generate leads, increase sales, retain, up-sell and cross-sell customers as well as building traffic to company web-sites. Some corporations seek to build their own in-house permission-based e-mail lists by inviting website visitors to register and subscribe to an e-mail update or newsletter as well as by renting third-party permission-based opt-in lists.

So-called permission-based or "opt-in" e-mail has provided only a partial answer to the problem of excessive commercial e-mail. This is so, first of all because the action of indicating interest in a category or product area is temporarily displaced—

that is, removed in terms of time of such action from the actual purchase decision point. Secondly, the information seeking is spatially removed from the primary interface that typical onliners use the most frequently—namely, their e-mail interface itself. Further, the conventional systems and methods of opt-in do not enable users to control/manage the flow of such e-mail to be sent to their inbox—for example, in terms of duration, frequency, geography, date, day part or time frame—for any given information desired. Further, the quantity of such delivered information is not controllable by the user, as so called opt-in e-mail is currently practiced in the marketplace. In effect, “conventional opt-in” is more like “opening” a faucet with limited or no ability to control its flow (amount), continuance (time period), or periodicity (frequency).

With the current conventional opt-in method, as provided by third party aggregators, users make their interests known to such an intermediary company, typically at that intermediary’s website (or at an affiliate’s web site) and, thereby, register to have promotional/informational messages in categories of interest sent to their e-mailbox on a continuing basis. These mailings continue until the recipient informs the information senders to cancel the mailing when the user no longer desires to receive such information. According to the common experience among users, this cancellation procedure often does not effectively cancel the influx of information. Many third party aggregators

often do not send the requested promotional messages unless consumers also agree to receive additional messages. Hence, consumers are coerced to "opt-in."

Other e-mail marketing intermediaries seek to persuade online users to provide e-mail addresses for promotional mailings, sometimes in return for some incentive, bonus point program or refund. Often, these companies will employ the opposite of "opt-in", namely an "opt-out" method of e-mail marketing, whereby consumers are first sent an e-mail message and then are given the option of not receiving any more promotional messages of the type—that is after they have already received at least one such message. That is, in this method, a stream of messages is typically sent until a user takes the action to inform the sender that he no longer wants to be sent such messages (hence, "opt out").

While e-mail users, in research, by far, prefer "opt-in" over and above the "opt-out" method, as of mid-2000, actual e-marketers' practice is still much more skewed to "opt-out."

A key challenge for effective e-mail marketing is distinguishing the fine line between permission-based e-mail and unsolicited e-mail, common known as "spam." According to analysts' studies (Jupiter, IMT Strategies, et al), between 33% and 59% of consumers ignore e-mail from unfamiliar sources. This phenomenon is the "soft underbelly" of conventional permission-based or opt-in e-mail marketing in that, quite literally, the

user forgets that he requested information or, simply does not recognize the "unknown" sending source.

Thus, with conventionally implemented "opt-out" and, even with "opt-in" e-mail, if the user receives more e-messages than expected, or if the content is irrelevant or if it is not timely (e.g., receiving the travel information package after one already took the trip), such eMessage is likely to be perceived as "spam" and, hence, ignored. If e-marketers send to a user's e-mail address in order to promote unrelated products/services—or if the user's addresses are sold/rented/exchanged with other marketers—such e-mail can appear to come from an unfamiliar sender and, *de facto*, result in the perception of "spam" on the part of the user—even if the customer originally gave permission to the sender directly or to some, legitimate third party intermediary.

In summary, the conventional "opt-in" e-mail system is not dynamic in the sense that users cannot control an "on/off switch," i.e., turn on/turn off a category of interest easily and quickly; nor can they control the amount of information to be received nor its active "life." Such systems are also, by their being "outside" of the user's e-mail system's operational infrastructure, not intimately knowledgeable of the individual user's e-mail behaviors re: the full range of other opt-in relationships for other categories of information, nor the person's e-mail preferences in terms of delivery, terminus device, type of e-mail format, auto-forwarding to share with a

friend, etc. and/or the user's specific behaviors (open/save/delete/forward/et al.) in response to a given e-mail received, i.e., beyond simply tracking the click-through to the e-marketer's website.

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Summary of the Invention

In light of the drawbacks of the known methods for enabling users to grant their permission for commercial messages to be sent to their e-mail address or other e-messaging terminus in the categories of their interest, an objective of the present invention is to provide a system and method for facilitating information requests by combining functionality such as quantity/duration, device terminus and other preferences with the most frequently engaged online activity; namely, with the e-mail or emessaging system, putting users in control of their own information request parameters. Thus, the subject invention makes it possible to have immediate interaction with the on-request utility at the very point of the e-mail interface (or, according to another embodiment, a single click away instantly from the e-mail interface to the on-request functionality or according to another embodiment as a pull-down or pop-up panel on a browser, or according to another embodiment as a desktop application or agent, or according to another embodiment at a separate website).

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The subject invention embodies, as well, a "just-in-time" responsiveness feature that enables the user to self-customize the quantity, frequency, delivery terminus (1 or more), auto-forwarding and other criteria specific to the individual user and the specific requested information event and to have such request and specific criteria active for a desired duration or time frame which coincides with the user's period of interest.

Further, the subject invention includes the corollary mechanism for aggregating legitimate advertiser e-mail/e-messages in a Central Posting Facility (and, according to another embodiment, a cluster or networking of such databases) and, by extension, the application of such Facility to become a Commercial On Demand e-Mail Clearinghouse for multiple uses by web-sites, portals, corporations and other service providers with end-user relationships. A method for integrating the "just-in-time" functionality described above with other systems such as SAIC's MISTI for indexing and searching of web-accessible content or legacy databases is also provided for by the invention.

The present invention provides an improved method and system that enhances any e-mail system, whether POP, IMAP or other protocol (or more broadly, any e-messaging system), by combination with a dynamic, on-screen, on-request information control and exchange functionality which enables users to make self-tailored or personally customized requests for categories of information to be delivered to them via their e-mail/eMessaging

address, (according to other embodiments, such functionality may be provided as an embedded browser plug-in, pop-up, desktop application or agent, or at a separate website itself, and delivery may be by other than e-mail forms of e-messaging including instant messaging, short text wireless, addressable television communication, as well as by conventional delivery, over the Internet, of addressable data packets to an IP address.)

The method and system, according to the present invention, provides the user with a range of pre-established categories and sub-categories of information which the user may activate by simply highlighting, or otherwise checking off, or clicking on.

Further, the method and system enables users to make specific requests beyond the existing, pre-established categories, by inputting their information request following a simple format for such request and the system seeks to identify and provide such information by e-mail or alternate e-messaging protocol, e.g., instant messaging, wireless short message or other digital communications to an IP address, by its use of such searching mechanisms as SAIC's MISTI system.

The invention also provides for the requests, so indicated, to be self-tailored or customized by the user according to the user's preferences, for example, quantity of information desired, active duration for each request, geographic specificity, date, daypart, time period, cost/value, delivery terminus device(s), automatic forwarding to one or more other e-mail/eMessaging

addresses, and other parameters that the user dynamically is able to control.

The method and system according to the present invention further provides for the coding of such requests and the
5 retrieval of relevant information/advertisement/ offers from a range of databases, a) controlled by the service as a Central Posting Facility of one or more databases to which legitimate advertisers, under certain agreed-on procedures, may post their most current eMessaging-delivered offerings; b) via inter-linkage
10 with one or more outside databases or web-sites controlled by advertisers directly or by intermediary aggregators of such commercial communications, offers or information and accessible over a wired or wireless network.

The method and system according to the present invention
15 enables the user, therefore, simply and easily, at the e-mail (or emessaging) interface (or according to other embodiments at the desktop, at the browser or at a separate web site) to request on a self-customized basis, the information and commercial offer(s) he wants to receive in his e-mail in-box, or other e-messaging
20 terminus (or according to other embodiments receiving same at a private lockbox located elsewhere, e.g., on a separate website). Such requests may occur without the user being required to leave in any way or exit the primary e-mail interface (or according to other embodiments, via browser pull-down, pop-up desktop
25 application, or at a separate website).

Further, the method and system of the present invention incorporates a billing transaction mechanism whereby the information supplier/advertiser can be charged for delivery of his information/advertisements to qualified requestors.

5 Additionally, the users of such system on the "demand" side are enabled to purchase relevant information (e.g., full reports, etc.) by way of a micro-payments credit card or other billing transaction system.

10 The present invention acts as an information exchange system, which seeks to optimize the matching up of the requests from multiple users for information with their associated multiple criteria/preferences and personal profiles on the one hand, with, on the other hand, the information inventory of multiple suppliers' with their associated multiple
15 specifications, objectives and mandatories. In this embodiment, the user or subscriber has an Information Account and the Supplier or Information Provider has an Information Account each of which maintains active and historical records of requests made, criteria for such requests and a record of delivered
20 results and associated email behaviors and financial transactions as appropriate.

Such on request utility may be embodied as an information exchange or, according to other embodiments, as an enhanced Selection Engine, which delivers a similar end user experience
25 that operates by combining a Search Engine functionality (such as

aspects of MISTI) with an Account Management system that records, manages and directs the search function, its delivered results, the historical tracking of same as well as any financial accounting of such "information transactions."

5 A further object of the present invention is to construct Web-based services wherein users at a variety of separate web-sites or portals are able to input into an information request panel and, thereby, declare their interest in receiving, offers and information, typically of a commercial type, for desired
10 categories of commerce or social activity and qualify such requests as to duration, quantity, frequency, et al. to be delivered largely by e-mail to their e-mail address or to some other eMessaging terminus or IP address.

 This method and system takes conventional opt-in or
15 permission-based e-mail to a new dimension in dynamic user control and specificity and may be rightly termed a new form of "on request," user-controlled information access utility. With the ability, in particular, to control duration of active requests (in hours, days, weeks, months, or no time limit),
20 frequency, and quantity of desired information, specific time period and other factors, the system provides a more effective method of "just-in-time e-marketing communication" for users who are closer to the "purchase decision window" able, willing and ready to transact.

25

Brief Description of the Drawings

Figure 1 illustrates an information exchange system of the present invention.

Figure 2 illustrates a first system embodiment of the present invention, based on an exchange model.

Figure 3 illustrates a flow chart diagram of the System Architecture for the present invention.

Figure 4 illustrates another preference information screen for subscriber account holders of the present invention.

Figures 5a and 5b illustrate preference information screens for subscriber account holders of the present invention.

Figure 6 illustrates a geographically-based preference information screen for subscriber account holders of the present invention.

Figure 7 illustrates a customization module of the present invention.

Figures 8a and 8b illustrate a third system embodiment for supplier information control aspects of the present invention.

Figures 9a, 9b, 9c and 9d illustrate the information management and preference specification input screens for use by Suppliers/Information Providers of the present invention.

Figure 10 illustrates a summary screen of the activity history of subscriber account holders of the present invention.

Figure 11 illustrates an alternative system embodiment of the present invention, which is structured as a subscriber

account-driven, search engine-based request and fulfillment system.

Figure 12 illustrates a flow chart diagram for subscriber account holders of the present invention.

5 Figure 13 illustrates a flow chart diagram for supplier account holders of the present invention.

Figure 14 illustrates a flow chart diagram for the processing of requests by the present invention.

10 Detail Description of the Present Invention

Figure 1 illustrates a broad systematic view of the present invention. As shown, a Subscriber Front End System 100, a Supplier Front End System 102, an Information Exchange System 104, a Clearing House System 105 and an Information Memory System 106 are all interconnected by a network 103. The Supplier Front End System 102 is used to collect information from advertisers or information providers. The Subscriber Front End System 100 is used to collect information requests from Subscribers. The Information Exchange System 104 is used to facilitate either
15 exact matches or a varying degrees of matches between information requests made by subscribers and information provided by advertisers/suppliers. The Clearinghouse System 105 is used to handle all aftermath functions of either the exact matches or the varying degrees of matches, such as aspects of business
20 transaction, including refined or modified requests, tracking,

accounting-related functions, etc. The Network 103 is used to be a facilitator of communication among the various systems.

Network 103 can be, but is not limited to, being an Internet, an email network, a wireless or cellular network, a Wide Area

5 Network, a Local Area Network, or a combination thereof. A system use statement is given immediately hereinbelow.

Start of Day (SOD)

Information Exchange System 104 and clearinghouse System 105
10 load up all the corresponding business rules stored in Information Memory System 106 via Network 103. Then Information Exchange System 104 also load up all the information inventories and requests for "today" from Information Memory System 106 via Network 103. When the loading process is completed, Information
15 Exchange System 104 performs the matching process to generate executions by matching information inventory with relevant requests. Thereafter, the system follows the process defined in Execution.

20 Execution

Executions are then sent to Information Memory System 106 for archiving and clearinghouse System 105 for further processing, via Network 103. Clearing House System 105 ensures that no execution violates any boundary specification of

25 subscriber and supplier defined via Subscriber Front End System

100 and Supplier Front End System 102 respectively. If the boundary specification has been violated, the system will invalidate the inventory or request of the corresponding supplier or subscriber respectively. This ensures his/her
5 inventory/request will not be processed in the future until the violation has been neutralized.

Intra-day

Subscriber submits an information request via Subscriber
10 Front End System 100. This request is sent to Information Exchange System 104 via Network 103. When Information Exchange System 104 received the request, it looks up matching inventory from Information Memory System 106 via Network 103. Then the system follows the process defined in Execution.

15 Supplier submits an information inventory via Supplier Front End System 102. This submission is sent to Information Exchange System 104 via Network 103. When Information Exchange System 104 received the inventory, it looks up matching request from Information Memory System 106 via Network 103. Then the system
20 follows the process defined in Execution.

End of Day (EOD)

Clearing House System 105 scans all recurring information inventories and requests stored in Information Memory System 106,
25 then marks these information inventories and requests as "today".

Period Summary

Start of Day tasks MUST be performed prior to Intra-day tasks. Intra-day tasks MUST be performed prior to End of Day tasks. The time span that defines each period (i.e. SOD, Intra-Day, EOD) is customizable.

Subscriber

Subscriber uses Subscriber Front End System 100 to submit a new information request or to query existing information request status. When subscriber logged into the system via Subscriber Front End System 100, Subscriber Front End System 100 query the information requests and executions that are associated to the logged in subscriber. Subscriber can also modify any existing information request via Subscriber Front End System 100; the updated request is then sent to Information Exchange System 104 for further processing as described in Intra-Day. Subscriber also uses Subscriber Front End System 100 to perform micro-payment for their specialize subscription.

Supplier

Supplier uses Supplier Front End System 102 to submit a new information inventory or to query existing information inventory status. When supplier logged into the system via Supplier Front End System 102, Supplier Front End System 102 query the

information inventories and executions that are associated to the
logged in supplier. Supplier can also modify any existing
information inventory via Supplier Front End System 102; the
updated inventory is then sent to Information Exchange System 104
5 for further processing as described in Intra-Day. Supplier also
uses Supplier Front End System 102 to perform payment for their
services.

The Subscriber Front End System 100 provides information
subscriber (IS) a friendly user interface to interact with the
10 other system components such as Information Exchange System,
clearinghouse System and Information Memory System. When the IS
requests for specific information, IS submits the request to
Information Exchange System 100, which system 100 responses to IS
with the matching result (via either searching or matching
15 information inventory resides in Information Memory System).
Network Infrastructure provides a platform for communication
between Subscriber front-end system and other system components
as described above.

Subscriber front-end system can be an application, an
20 applet, a web application, and/or an embedded device with applet
running on it. Components belonging to the Subscriber Front End
System 100 in the various figures of the present invention are
listed by way of an example in Table A.

Table A

Figure	Item #	Comments
2	200, 232	
3	1102, 1104, 1136	
4	900 - 999	Information response (e-message) front end
6	802, 871, 1300 - 1399	Information request specification front end
5a, 5b	800 - 899	Information request specification front end
7	500, 502, 504	
11	300, 310	
12	600 - 699	Front-end work flow

The Supplier Front End System 102 provides information provider (IP) a friendly user interface to interact with the other system components such as Information Exchange System,

- 5 Clearing House System and Information Memory System. When the IP submits an information inventory, IP submits the information inventory to Information Exchange System which responses to IP with the matching result (via either searching or matching information request resides in Information Memory System).
- 10 Network Infrastructure provides a platform for communication between Supplier front-end system and other system components as described above.

Supplier front-end system can be an application, an applet, a web application, and/or an embedded device with applet running on it. Components belonging to the Supplier Front End System 102 in the various figures of the present invention are listed by way of an example in Table B.

Table B

Figure	Item #	Comments
2	206, 232	
3	1100, 1102, 1104, 1136	
13	700 - 799	Front end work flow
8a, 8b	402, 404, 406, 408, 410	
10	1000 - 1099	Report format
11	308, 310	

The Network Infrastructure 103 provides all system components a platform for communication. Network infrastructure can be any form of wired networks, wireless networks, and/or satellite networks with any form of networking protocol build on it. Components belonging to the Network 103 in the various figures of the present invention are listed by way of an example in Table C.

Table C

Figure	Comments
2	Arrows between block diagrams indicate communication via Network Infrastructure.
3	
7	
8	
11	

The Information Exchange System 104 facilitates the searching or matching of information request and information inventory resides in Information Memory System according to both static and dynamic business rules. The process of facilitation can be real-time or periodic. When there is a match between one or more information requests to one or more information inventories, there are one or more executions. Information Exchange system forwards these executions to Information Memory System and clearinghouse System for archiving and further processing respectively via Network infrastructure. Components belonging to the Information Exchange System 104 in the various figures of the present invention are listed by way of an example in Table D.

Table D

Figure	Item #
2	204, 210, 218,

	226, 230, 236
3	1106, 1122, 1130
7	510, 512, 514
14	1200 - 1224, 1234 - 1299

The clearinghouse System 105 facilitates the process of validating the execution correctness and transaction accounting information generated by these executions according to both static and dynamic business rules. The process of facilitation can be real-time or periodic. Clearing House System forwards any updates to Information Memory System for archiving via Network infrastructure. Components belonging to the Clearinghouse system 105 in the various figures of the present invention are listed by way of an example in Table E.

Table E

Figure	Item #
2	203, 210
3	1114, 1118, 1134
14	1228, 1230, 1232

The Information Memory System 106 provides all system components information storage. Information Memory System can be distributed among the Network Infrastructure or centralized within the Network Infrastructure. Components belonging to the

5 Information Memory System 106 in the various figures of the present invention are listed by way of an example in Table F.

Table F

Figure	Item #
2	202, 212, 214, 216, 226, 228, 234, 240
3	1108, 1112, 1120, 1124
7	506, 508
8a, 8b	412, 414, 416, 422, 424
11	302, 306, 308

Figure 2 illustrates a first systematic view of the present invention. As representatively shown, this is an At My Request User Request Utility 200 running on a system that can be as simple as a personal computer or personal digital assistant

15 connected to network 103 via either wired or wireless transmission. 200 is the subscriber's interface to the At My Request Utility. From this interface, a subscriber can specify requests and establish parameters/criteria associated with specific requests.

Connected to utility 200 is a Subscriber Dynamic Request Database 202. The active subscriber request information from all subscribers are stored in this database. The database 202 exchanges information with an Exchange/Matching Engine 204.

5 Engine 204 matches supplier information with subscriber requests. The matching engine defines positive matches by means of an exchange or system of matching logic controlled by business rules, wherein:

1. Consumer is a Client (Subscriber).
2. BusinessUser is a Client (Supplier).
3. Client has a Portfolio.
4. Portfolio is a PortfolioItem.
5. Order is a PortfolioItem.
6. Info Match Up Report is a PortfolioItem.
7. Portfolio keeps track of PortfolioItem.
8. Consumer's Portfolio provides MatchingEngine with Consumer's demographics and behavioral information for more accurate matching.
9. BusinessUser's Portfolio provides information to
20 ClearingEngine to match up the credit limit of the BusinessUserAccount.
10. Order generates Info Match Up Reports.
11. Consumer Order is an Order that contains specification of a commercial advertisement request.

12. BusinessUser Order is an Order that contains the specification of a commercial advertisement.

13. An execution of two orders (Consumer Order and BusinessUser Order) occurs when their specifications are "likely" to match. Both Consumer and BusinessUser receive an Info Match Up Report for an execution.

14. OrderBook maintains open Orders. Open order is an order that has not been satisfied.

15. MatchingEngine matches up open Consumer Order and open BusinessUser Order.

16. MatchingEngine defines how the orders (both Consumer or BusinessUser) are being matched.

Complying with these rules, a Use Case Model including a Subscriber Use Case Statement (Figure 12), a System Use Case Statement (Figure 14) and a Supplier Use Case Statement (Figure 13) are made possible.

When the Subscriber logs into the At My Request User Request Utility 200 the system authenticates the Subscriber at the Authentication Server 240. If the Subscriber is a new user of the system 238 he will be sent to the Customization Engine 218 and will be asked to fill out a Subscriber Profile and then will be given a name and password by the system for future authentication.

Interactively communicating with the Exchange/Matching Engine 204 is a Customization Engine 218 that manages

customizable content, maintains rules that are specified by the
Subscribers and/or the system and/or the Suppliers, maintains
profile information about Subscribers (based on user-supplied
data at sign-up or subsequently and relevant behavioral tracking
5 data about the users' activity on the system) which is used to
customize the system's response to their queries, and is used to
make adjustments to both an Subscriber's Profile Database as well
as Business Rules specific to individual Subscribers.

The Customization Engine 218 also communicates with the
10 Central Marketer E-mail Inventory Database 216 and receives
instructions and messages from the Supplier Control System 206
about what to do with the inventory it has access to in the
database. The Supplier Control System 206 is the control utility
or dashboard for marketers and advertisers. From this dashboard
15 they are able to set parameters such as budget, targeting,
performance criteria, etc. Before the Supplier can use the
dashboard, the Supplier must first be authenticated by the
Authentication Server 240.

A Central Marketer eMail Inventory Database 216 is
20 interactively communicable with the Customization Engine as well.
The Central Marketer eMail Inventory Database 216 holds both
internal and external advertising inventory and information.
Database 216 also collects information for inventory from
Internet Bot 214—an application that follows hyperlinks and

catalogs the content of the pages that meet specified criteria—
and 3rd Party Information Inventory Databases 212.

A Transaction Server 203 bridges between the Supplier
Control System 206, the Exchange/Matching Engine 204 and a
5 Clearinghouse 210. The Transaction Server 203 processes all
forms of transactions, including micro-payments, billing, credit
card payments for the users including both "Subscribers" and
"Suppliers", whereas the Clearinghouse 210 makes certain of
execution of matches within limits of user and
10 advertiser/information provider accounts, such as credit, request
criteria, etc. and makes adjustments as may be required to "true
up" accounts.

An "At My Request" email/eMessaging server 230 interconnects
between an e-mail Graphical User Interface (GUI) 232, a Video
15 Server 228, and the Exchange/Matching Engine 204 and the
Clearinghouse 210. The Video Server 228 provides hyperlinks to
the AMR e-Mail Server 230 which are then embedded into e-mails
sent to the e-Mail GUI 232 wherein the link when clicked, causes
a video to download from the Video Server 228 and run. The Video
20 Server can also be used to attach compressed videos as
attachments to emails/emessages sent by the AMR e-Mail Server.
The email GUI provides access to the delivered information as
well as the At My Request user interface (see Figure 5). The GUI
also hosts banner advertising. By way of functions, the AMR e-
25 Mail Server 230 provides notification or request fulfillment to

the Exchange/Matching Engine 204, provides notification of email delivery to the Clearinghouse 210, and delivers messages directly to the email GUI and through the Video Server 228.

An Opt-in Banner Ad Server 226 bridges between the Customization Engine 218 and the e-Mail GUI 232. The Opt-in Banner Ad Server provides banner ads which are either related to the user's current "on-demand" requests for information or the user's stated preferences for banner ads which are solicited by the system at sign-up and periodically thereafter.

The System Data Warehouse 234 is connected to the At My Request User Interface 200, the Subscriber Dynamic Request Database 202, the e-Mail GUI 232 and Data Analysis Servers 236. The System Data Warehouse provides storage of all historical user data. The historical user data are then analyzed by the Data Analysis Servers 236 according to Business Rules and provide the Clearinghouse 210 with the results. The Data Analysis Servers can also provide results to the Customization Engine 218 for uses established by business rules and for customization of advertising campaigns.

Figure 3 illustrates a flow chart diagram of the system architecture for the present invention. The Information Request Application Server (IRA) 1130 has two components, the Matching Engine 1128 and the Accounting/Billing Engine 1132. The IRA handles requests from commercial information subscribers and suppliers via Information Request GUI 1104, which is located

within the overall eMessaging GUI 1100. When a request is received, the Matching Engine 1128 looks into the DBMS 1120 for advertising/information inventory. Based on the Business Rules that are stored in the DBMS, the Matching Engine matches up commercial information inventory with commercial information request. Subscribers and suppliers are notified when the request has been fulfilled via electronic messaging sent from the eMessage Server 1106. The eMessage Server provides subscribers/suppliers, IRA Server and Transaction Server a communication platform (i.e., email, wireless, instant messaging). When the request has been fulfilled, the Accounting/Billing Engine 1132 deducts the supplier account credit with one or more financial transactions based upon the number of inventory items delivered to subscriber(s). The IRA is also responsible for pushing personalized banner advertisement to the eMessaging GUI 1102 based upon subscriber/supplier personal profile and/or requested information request categories.

The Transaction Server 1118 handles financial transactions following the fulfillment of requests by the IRA. Financial requests are passed from the user, through the IRA and on to the Transaction Server. The responsibilities of the Transaction Server are: to ensure the transaction is atomic, i.e., either the transaction is completed or nothing is done at all; to ensure the transaction is auditable via audit trail information 1116; to

ensure the transaction correction, if needed, is auditable via audit trail information.

The Clearing/Settlement Server 1114 handles the accounting/billing settlement on the supplier's account; it also provides authorized personnel to facilitate transaction correction on subscriber's/supplier's behalf. All actions taken on CS Server are monitored.

The Database Management Server (DBMS) 1120 is the sole data repository for the entire system. DBMS provides the rest of the system a way to add or modify data in its storage. Contained within the DBMS is: subscriber/supplier personal preference/behavioral profile; subscriber/supplier personal information (such as contact address); subscriber/supplier information request account information; subscriber/supplier eMessaging account information; financial transaction information (such as billing account, micro payment, credit card information); subscriber's information request and its status; supplier's information request and its status; information request/inventory execution reports; business rules for Matching Engine component of IRA Server.

Periodically, the DBMS synchronizes its data to master LDAP Server 1112 and master LDAP server synchronizes its data to multiple slave LDAP servers 1110 and 1108. Both eMessage and IRA servers use slave LDAP servers to look up non-volatile account

information for subscriber/supplier authentication during sign-in process.

The third party Advertisement Information Inventory Proxy Server (AIP) 1126 allows third party vendors to submit their
5 inventory into the system without using the Information Request GUI 1104. The information submitted via AIP server MUST be compliant to XML-based IRML (Information Request Markup Language) format.

The Business Rule Customization GUI 1122 provides authorized
10 personnel with a user-friendly way to submit transaction corrections on subscriber's/supplier's behalf.

The eMessaging GUI 1100 consists of three components: Banner Advertisement 1102; eMessage Center 1136; and Information Request Utility 1104. The Banner Advertisement 1102 is placed by the IRA
15 1130 and is personalized based on the subscriber/supplier preference/behavioral information. The eMessage Center 1136 provides subscriber/supplier with a user-friendly graphical interface to read (or send) electronic messages from the system. The Information Request Utility 1104 provides subscriber
20 (supplier) with a user-friendly graphical user interface to parameterize and to submit commercial information requests (or inventory) to the system.

Figure 4 illustrates another preference information screen for user account holders of the present invention. As shown this
25 is a main menu screen of an e-mail account with an exemplary ABC

Service Provider e-Mail Service logo 900. This screen contains numerous segments, including an actionable row segment 902, an actionable column segment 904, a search segment 906, a ZoEmail Member Shopping Sites 907, a first treatment segment 910, a
5 second treatment segment 912, an at my request segment 914, a tabulated record segment 916 and an Internet Service Provider segment 918.

At the actionable row segment 902, one can check whether there is any awaiting email message by clicking the personal
10 inbox area 922. Alternatively, email message can be sent out by clicking the outbox area 922. One can also draft email messages by clicking the draft area 924 or treat certain information as garbage by clicking the trash area 926.

At the actionable column segment 904, there are numerous
15 icons linking to specific utilizable features, including check mail 928, compose email message 930, various folders 932, address list 934, search feature 936, options feature 938, help desk 940 and sign out feature 942.

At the search segment 906, there is a search the Web
20 feature. From this site, one can find information on products, deals, advertisers and other related content on the Web. With the ZoEmail Member Shopping Sites 907 button the user can go to web storefronts where purchases of information, products and services can be made. The shopping sites may be a page of
25 hyperlinks to advertiser/information provider sites, may be a

virtual mail hosted by ZoeMail where all transactions take place on ZoEmail servers, or some combination of both.

The lock box folder 908 stores all e-mails from senders who don't have an authenticated key and are thus from unknown

5 senders. By sending unauthenticated messages to the lockbox, the main inbox stays free of irrelevant mail. At the lock box 908, there are a plurality of actionable features 910 for selecting check all 944, clear all 946 and empty trash 948. Items in the lock box 908 can either be individually check at the check boxes 954 and 956 or all items can be checked by the check all key 944. If all items are checked and deleting of all items are desired, then the clear all key 946 can be clicked to accomplish this result. However, if only a selected few of the items is desired to be deleted, then the delete key 958 can be clicked to
10 accomplish this result. It should be noted that the deleted items are not immediately removed from one's record, they are rather being placed in a folder waiting to be permanently removed by the clicking of the empty trash key 948. Once the empty trash key is pressed, then the items will be permanently removed and
15 unrecoverable. Other folders like the lock box folder 908 can be selected from the choose folder feature 950 through the scroll bar 952.

The checked mail key 960 is used in conjunction with the checking of items in the lock box 908. Should a person wish to
25 read the content of any message item, all that person need to do

is to check the relevant check box 954 or 956 then press the checked mail key 960. Content of the relevant message item will appear in the screen. Alternatively, the user may also click on the subject line of a mail message to open that mail message.

- 5 The move key 962 is also used in conjunction with the lock box 908 as well as the choose folder key 950. Assuming there are a general mail box folder and a stock portfolio folder. Should a person receive an email stock report in the general mail box folder and wish to move the report to be stored in the stock
- 10 portfolio folder, then the person needs to go to the general mail box folder through the choose folder key 950, identify the email stock report through the relevant check item box 954 and 956, click the move key 962 to indicate the email stock report is to be moved, identify the stock portfolio folder through the choose
- 15 folder key 950. Through this process, the email stock report is moved from the general mail box folder to the stock portfolio folder.

- At the At My Request segment 914, various features of the At My Request service are shown. There is an active request window
- 20 964, within which window contains numerous request items representatively showing honeymoon travel packages 966, camping in the western United States 968, best deals on projection television 970 and sport utility vehicles 972. Other request items can be shown by using the scroll bar 974. Adjacent to each
- 25 request item is a check box. An x in the check box indicates the

adjacent request is active. A blank in the check box indicates the adjacent request is in the process of being selected and user-defined request criteria are being established for the request.

5 A person may add requests through the type in your request area 976. At the end of typing in the request, the GO icon 978 can be clicked to initiate the search. Below the type in your request area 976 is a scroll bar area 979. This scroll bar is for indicating the volume of information being requested. For a
10 few on target results, a person may choose the end of the scroll bar indicating a little. Conversely, for a large volume of on target results, the person may choose the end of the scroll bar indicating a lot. The person may also indicate a volume anywhere in-between the two ends.

15 Below the volume bar 979 is a keep active indication segment 980. A person may indicate the search should be kept active for a number of days, weeks or months at the keep active designation area 982. Should the person choose so, a no time limit 984 can also be designated.

20 Regarding the add key 986 and delete key 988, the user may add a new request to his list of active requests or delete a request from his list of requests. At the far right corner of the screen is a reserved Internet Service Provider Promotional Panel 918. This promotional panel is used as an area to run

advertising, promotions and to be host to dynamic information from third parties.

Figure 5 illustrates an "At My Request" Subscriber Control Panel. There are three major representative segments. The first segment is labeled as the Alternative User Access 800. The second segment is labeled as the On Screen At My Request Function 802. The third segment is labeled as the At My Request Pop Up for Request Customization 804.

Illustratively shown in the first segment are five ways of accessing the At My Request service. The first way of access is through a web-based e-mail system 808 (Web mail). Within this web-based email system 808 is an e-mail interface 810 and an At My Request Control Panel Utility 812.

A second way of access is provided by an Internet Service Provider mail 816 with a modular At My Request 818 which is provided as an optional service to the ISP's user base and is integrated with the ISP's mail system and/or mail Interface.

A third way of access is provided by a browser plug-in or pull-down menu 821. With the At My Request functionality installed as a plug-in to a browser 819, the user can readily use the At My Request service, with communication from the On Request central service and the end user occurring via Jabber (Instant Messenger) or other Internet eMessaging protocol.

A fourth way of access is directly from a web-site for At My Request 820. Once access to the web-site has been obtained, the At My Request service 822 can be readily used.

A fifth way of access is through an Application or a Thin Client 824. An Application, once installed, may provide the user with a Desktop Shortcut 826 or make itself available in various user and application menus. The Thin Client may be downloaded by the user over the Internet. Once installed, both the Application and Thin Client provide the user with the full functionality of the At My Request service.

Linked to the alternative user access 800 is the On screen At My Request Function 802. The screen 802 has an At My Request logo 830. Below the logo is a window 832 with a number of entries of actively searched items. As shown, item 836 is a Caribbean air trip that has received 4 e-mails with seven more days left on the search. Similarly, item 838 is a search of computer printers has received 3 e-mails with 9 more days left on the search. Item 840 is a search of new Jaguar cars having received 1 e-mail with 14 more days left on the search. Item 842 is a search of fishing equipment having received 6 e-mails with an auto number of days left on the search. Even though the window can only display a limited number of items per screen, additional number of items can be viewed through the scroll bar 832.

Screen 830 also contained a view categories key 860, a "type in" key 862, a "help" key 864, a "customize my request" key 866, an "add now" key 868, "an undo/delete" key 870, a "cc: share info" key 867, a "delivery device" key 869 and a "local info" key 871. Depending upon needs and functionality, other keys may be added.

Search items can be easily added in the add new requests designated area 844. For multiple additions, scroll bar 846 can be used. An asterisk inside a box icon 872 is shown on screen 830. Flashing of this icon means that new messages have been received.

By clicking the "Customize My Request" button, the At My Request pop up for request customization screen 804 appears. The header of the screen shows today's date 874 and a customize my request logo 876. The middle of the screen shows a number of customizable features. Should no customization be needed, then either automatic personal preference precoding or over time self-coding will be used as default features. Self-coding is determined by the system using historical usage patterns, feedback and Subscriber behavior history as the basis for creating a personalized default customization for the Subscriber. Since the customization features are search item specific, the item to be searched is shown in window 878, which currently shows a Caribbean air trip. For other search items, scroll bar 880 can be used for making desired selections. Associated with window

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878 are a view categories key 882, a type in key 884 and a help
key 886. For each search item, there is a prompt 888 of how long
should this search be active. In response to the prompt one can
designate either in terms of days, weeks or months or specify no
5 time limit. For each search item, one can also specify at a
prompt 890 of whether to have an automatic update of the search,
which can be provided on either a weekly, monthly basis or, as
may be required, other time frame. One can also specify at a
prompt 892 how much information is requested in a range between a
10 little and a lot (illustrated here with a slide bar, but which
can be embodied by way of check off boxes, fill in, or other
control device). Should it be desirable, one can also specify at
a prompt 894 whether to include related subjects. As to formats,
one can specify at a prompt 896 one of HTML/PIX format, video
15 format or audio format. Associated with this customization
screen are an ok to add key 897, an undo key 898, a next search
key 899, a my profile key 848, a my account history key 850, a my
eWallet key 852 and a cancel key 851. Should the subscriber want
to accept the current preferences as a new active request he
20 would use the ok to add key 897. Should the subscriber desire to
cancel the current preferences and return the customize request
panel to some default setting he would hit the undo key 898.
Should the subscriber want to add a preferences for a new request
he would invoke the next search key 899. Should the subscriber
25 wish to modify his profile he would invoke the my profile key

848. Should the subscriber wish to view the details of his account he would invoke the my account history key 850. Should the subscriber wish to either see the details of his online cash status or else make a purchase he would invoke the my eWallet key 852. Should the subscriber decide to not customize his current request he can use the cancel key 851 to return to the previous screen 802.

Should the subscriber want to share results from his information requests with his friends he can use the cc: share info feature

895. This opens a new window with a title of cc: share info 801 and two main sections: the first section is used to create a new list of friends or groups 802 and the second section provides the subscriber with the ability to choose from an existing list of friends or groups 807. In the first section the subscriber can enter name(s) into the text entry area 803 while using the scroll controls 804 to the right of the text entry area for seeing the parts of the list which aren't currently visible within the text entry area. The subscriber can also name the current list in text entry area 805 and when the subscriber has completed

building his list he can save the list to his account profile by using the save list key 806. Should the subscriber wish to use an existing list he can click on pull down menu 813 and select a list from his pull-down menu of lists. After the subscriber has selected a list the name of the list appears in the text box at 813 and a listing of the contents of the list appear in text box

809. The subscriber may scroll the information in 809 to see areas of the list that are not currently visible in the box. The subscriber can use the check off boxes in the text box 809 to select people from the list to send to, or the subscriber can send to the whole list easily by invoking the add all key 815. Should the subscriber want to modify an existing list he can use the edit list key 817. When the subscriber has selected the people he would like to share his at my request results he would then use the accept changes key 823 to activate his share info preferences. Should the subscriber change his mind and decide not to share his request information he can use the cancel key 849 to close the cc: share info window and return to the previous screen (802 or 804).

Should the subscriber desire to receive at my request information on more than one terminus device he can use the delivery device key 879 to select any number of terminus device(s) as the recipients of his request information. When the delivery device key is used a new window pops up with the title of delivery device preference 825 and is broken into two sections. The top section allows the user to specify whether the delivery device preferences will be for only the currently active request 826 or whether the delivery device preferences will be for all the subscriber's requests 827. In the bottom section the subscriber can make selections by checking off delivery devices on the left side and then filling in the appropriate device

information in the text entry area to the right of each selection. The subscriber can select to send request information to home e-mail 828, web-based e-mail 829, office e-mail 831, web phone 833, wireless PDA 835, pager 837, instant messenger 839,
5 network printer 841, Internet appliance 843 and fax or phone 845. Once the subscriber has made his selections he can activate the device delivery preferences by using the accept changes key 867. Should the subscriber decide to not specify an alternative delivery device, he can use the cancel key 847 to go back to the
10 previous menu (802 or 804).

Figure 6 illustrates an "At My Request" Subscriber Control Panel for designating geographic request specifications. This information control panel is launched from the main "At My Request" Subscriber Control Panel 802 by depressing the local
15 info key 871. The Information Localizer panel 1304 has a title of Information Localizer 1306 and is divided into three sections titled "provide information on this request" 1308, "from selected area" 1314, and "wireless locator" 1328. In the top section 1308, the subscriber can select his list of active requests in
20 the window at 1340 by using the scroll bars at 1310. The subscriber can also specify that the geographic parameters be used for on the currently selected request 1312 as well as for the request to be auto updated 1342.

In the middle section, "from selected area" 1314, the
25 subscriber can designate the postal/zip code 1316, town/city

1318, neighborhood 1320, state/province 1322, region 1324,
country 1326 by filling in the information in the entry area to
the right of the aforementioned preferences. When the subscriber
has completed his request, he can press the send key 1364 to
5 activate the request.

In the bottom section, "wireless locator" 1328, the
subscriber can input a radius in miles or kilometers from which
he seeks information. The subscriber can use the up and down
buttons 1358 to the right of the entry area to advance the number
10 up or down 1 integer. The subscriber is given his current GPS
coordinates in item 1332, his current town/city location in 1338,
his current neighborhood in 1336 and his current zip code in
1334. When the user has entered the radius of the search in
1356, he may then press the send key 1360 to activate the search.
15 The subscriber may activate the Mobile key symbol—a capital M in
a box—1362 to quickly tell the system to send a copy of the
requested information to his default mobile device.

Figure 7 illustrates an embodiment of the Information
Customization Engine (see 218) of the present invention. All
20 user profiles are stored in a Subscriber Profile Database 508.
The Subscriber Profile Database receives Feedback On Delivered On
Request e-Mails 502, receives answers to Subscriber Profile
Questions At Sign Up and Ongoing 500, receives results of
Subscriber Polling 504, receives information from External

Databases 506, is acted upon by a Segmentation System 510 and intercommunicates with a Business Rules Server 512.

A new subscriber is given a prompt at step 500 which asks the Subscriber Profile Questions before the Subscriber finishes signing up for the At My Request service. Later the Subscriber's profile is maintained by additional Ongoing questions. A user can express like, dislike and other types of feedback with respect to the delivered opt-in e-mails 502.

External Databases 506 are coordinated with information in the Subscriber Profile Database 508 in order to increase the amount of information available about Subscribers. For instance, a Subscriber's zip code could be cross-referenced with a third parties database allowing the system to infer knowledge about the subscriber with respect to the information contained in the third party's database about the Zip Code in the subscriber's profile. Working in tandem with the Business Rules 512 and the Subscriber Profile Database 508 the Segmentation System 510 creates narrowly targeted lists based on specified criteria and business rules. These targeted lists could be as small as a single person and as large as the number of entries in the Subscriber Profile Database. The targeted lists are then used by the Content Management System 514 to fulfill subscriber requests with targeted and/or personalized advertising/information.

Figure 8 illustrates a third embodiment of the present invention that representatively describes a system for central

posting by Suppliers of active e-mail inventory with two alternative means of updating.

The Supplier is first authenticated to use the system by the ZoEmail Authentication Server 412. If the Supplier is
5 authenticated then the Supplier has access to the features made available through the Supplier Control System 402. The Supplier Control System communicates with the Ad Sales Update Function 404, the Ad Tracking/Billing Code Generator 410, the ZoeMail Authentication Server 412 and sends an e-Mail Update to the
10 Client/Agency Advertising Data System 422 through the Updating E-Mail To Advertising Agency 400.

The Supplier Control System 402 allows the supplier to set parameters such as start/end dates, budget, target goals, type of e-mail delivered, response mechanism as well as providing the
15 Supplier with access to functionalities such as Ad Updating completed by the Ad Sales Update Function 404, Re-Up Agreement completed by Re-Up Reminder Ad Sales 406, Billing Instructions and Ad Tracking/Billing Code completed by Ad Tracking/Billing Code Generator 410.

20 The Ad Sales Update Function 404 provides the supplier with a means to insert new ad inventory or update existing ad inventory. The Re-Up Reminder Ad Sales 406 system prompts the supplier to renew, extend or start a new campaign when certain limits or quotas are about to be meet. The Budget Cap
25 Approaching system 408 alerts the supplier when the specified

Budget Cap is about to be met and gives the Supplier the opportunity to increase the Budget Cap or to enact rules specified by the Supplier in the Supplier Control System 402.

The Ad Tracking/Billing Code Generator 410 applies a code schema to advertising so that it may be tracked for both effectiveness and the Supplier's campaign specifications.

The supplier may work with an agency and may allow the agency to run advertising campaigns on its behalf through the Client/Agency Advertising Data System 422 is connected to Updated E-Mail For Posting On Active e-Mail Database 424 and Updating e-Mail To Advertising Agency 400. The Client/Agency Advertising Data System is used by the client or agency who are first authenticated by the Authentication Server 412 and then are allowed to make changes to the Supplier's e-mail inventory. The Client or Agency can also specify which informational e-mails in the inventory should be posted on the On Request E-Mail Active Inventory Database 414 at step 424.

If the Supplier wishes to run its own campaigns it can update its e-mail inventory through the Automated Updating of e-Mail Onto Central System prompt at step 426 which then updates the Suppliers inventory in the On Request e-Mail Active Inventory Database 414. The Automated Updating of e-Mail onto Central System 426 is also controlled by the e-Mail API 428 which is embodied by a control panel in the form of a plug-in or other type of application and is maintained by either the Supplier or

the Agency. The e-Mail API allows the Supplier/Agency to provide instructions for the posting of updated e-mail offerings to the Central System. The e-Mail API 428 is a sub-component of the Client/Agency eAdvertising System 430.

5 The Historical On Request e-Mail Archive Database 416 communicates with the On Request e-Mail Active Inventory Database 414 and stores a historical record of all inventory.

Figures 9a, 9b, 9c and 9d illustrate information management and preference screens for Supplier/Information Producers of the present invention.

10 Figure 10 illustrates a sample at your request user history record 1000. This record contains two windows 1001 and 1003. Window 1001 contains a user identifier area 1002 recording the email address of the user. Below the identifier area 1002 is a
15 at my request summary statement 1004, which is temporarily left blank for this user.

Regarding search events, there is a search category 1010 indicating a search of a Caribbean Trip 1012. The request of the search has a starting date 1008 on August 1, 2000 and an ending
20 date 1016 on August 10, 2000.

There is a summary of items sent 1018 recording all results that have been sent. Adjacent to this summary is a summary action 1020 recording how the search result is treated by the user. As illustrative examples, item 1022 indicates result of an
25 Empire Travel 0745112 delivered on August 1 that was deleted

without opening. Item 1024 indicates result of an American Express 7544117 delivered on August 2 that was opened and deleted. Item 1026 indicates result of an American Airline 6744112 delivered on August 2 that was opened and forwarded to john@aol.com. Item 1028 indicates a Continental Air 6441178 delivered on August 2 that was opened, responded and forwarded to betty@idt.net. Item 1030 indicates a request that was deleted before any result is delivered.

Window 1003 is the history record for a second user request.

Figure 11 illustrates an alternative system embodiment of the present invention, which is structured as a subscriber account-driven, search engine-based request and fulfillment system.

The Information Control Panel 300 is connected to the Dynamic Request Data System 306 and provides the subscriber with an interface allowing the subscriber to specify requests and establish specific request parameters including all of the parameters identified in Figure 5.

The Dynamic Request Data System 306 is at the hub of the system and is in direct contact with the Information Control Panel 300, The Subscriber Account Database 302, The Internet 304 and sources of Information on the Internet (312, 314 and 316), Supplier and Accounting System 308 and an e-Mail GUI 310. The Dynamic Request Data System includes a Search Engine, a Data Warehouse or Database, a Business Rules Database and eMessaging

Servers. The Dynamic Request Data System searches over the Internet for information to fulfill a Subscriber's parameters as expressed in the Information Control Panel and then packages the information as an html or ASCII text e-mail with or without an attachment and sends the e-mail to the e-Mail GUI 310. The html e-mail may contain hyperlinks 314 to locations on the Internet 304.

The Dynamic Request Data System 306 is capable of using all available communication protocols such as HTML, XML, FTP, Archie, Gopher, Veronica, WAP, et al. as well as search all publicly available sources of information including Databases 316, XML-based Information Suppliers 314 and Web Sites 312.

The Dynamic Request Data System 306 can be configured by the Information Suppliers and Accounting Function 308 to search first in specific data sources and then to present the data in a customized form or rank order.

The Subscriber Account Database 302 intercommunicates with the Dynamic Request Data System 306. The Subscriber Account Database tracks subscriber requests and the fulfillment of subscriber requests with respect to the duration, the quantity of information and other specific preferences as defined by the Subscriber at the Information Control Panel 300.

Figure 12 illustrates a flow chart diagram for a User Account Holder of the present invention. As to the Subscriber Use Case Statement (Figure 6), Subscriber uses @MyRequest panel

to enter the specification of his/her request for commercial advertisement. The system ensures that the Subscriber has already signed up for the service before processing the request. If Subscriber is not already signed up for the service, the
5 system will prompt Subscriber for some basic information (such as e-mail/eMessaging address, demographic information) via the service sign-up panel, and process the request once sign up process is validated.

Should a new user attempt to open an account or an old user
10 attempt to enter an existing account, both type of users gain access to the present invention system through the logic flow set forth herein beginning at step 600. At the very beginning of the process, a determination is made to distinguish a new user from a user with an existing account, as shown in step 602. While a
15 user with an existing account signs in immediately at step 616, a new user must sign up for the service at step 604, enter all prompted information as account information at step 606, enter all prompted information as user contact information at step 608, and enter all desired options upon prompting as preference
20 information at step 610. The information entered through steps 604 to 610 are added into a new customer information system database, as shown in step 612. Immediately after the sign up service is completed, relevant information of the customer is sent to an address obtained from step 608 to confirm that the
25 sign up process has been successfully completed along with other

relevant information such as customer number, account number,
password, etc. The user is then redirected at step 614 to the
sign in at step 616 to take advantage of the present invention
system. Once successfully signed in, a main menu is displayed at
5 step 618. From which menu, five options can be readily selected.
The options include add new request at step 620, update account
information at step 632, sign off at step 652, track request
status at step 658 and update cc: share list at step 683. Even
though the exemplary main menu shows only five options, more
10 options can be easily made available, such as viewing account
history, establishing user personal files, providing customer
tools, etc.

Should the user choose the add new request option at step
620, a prompt asking the user to define request category is
15 provided as shown in step 622, a prompt asking the user to define
request duration is provided as shown in step 624, a prompt
asking the user to define request quantity is provided as shown
in step 626, a prompt asking the user to define request receiving
terminus as shown in step 628, and followed by a prompt asking
20 the user to define other request specifications as shown in step
630. Thereafter, the main menu 618 is shown allowing the user to
choose further options.

Should the user choose the update account information option
at step 632, the system begins tracking the account information
25 as shown at step 634 and the user is given three options at step

634 of updating account information as shown in step 636, check account balance as shown in step 642 and go back to previous menu as shown in step 650. If the user chooses to update account information at step 636 a prompt asking the user to update contact information is provided at step 630, followed by a prompt asking the user to update contact information is provided at step 638, a prompt asking the user to update preference information is provided at step 640 and at the conclusion of step 640, the user is directed back to the menu at step 634.

Should the user choose to check account balance as shown in step 642 the system then queries the user account history/balance at step 644, displays a prompt asking whether the user wants to make a payment as shown in step 646 and if the user wants to make a payment the payment is processed as shown in step 648 and the user is taken back to the menu at step 634. If the user decides not to make a payment he is taken back to the menu at step 634. Should the user choose to go back to the previous menu at step 650 the user is then taken to the Main Menu at step 618. Should the user choose to sign off at step 652, the system resets the subscriber session state at step 654 and ends the transaction at step 656.

Should the user chooses to track request status of outstanding requests at step 658, the user is presented with a track request menu at step 660 with options of either query

request at step 662, modify request at step 668, delete request at step 678 or go back to the previous menu at step 682.

Should the user choose query request at step 662, the user is prompted to enter query specification at step 664 and then the system returns the results from the query to the user at step 666. Should the user choose modify request at step 668, the user is prompted to update request category as shown in step 670; user is prompted to update request duration as shown in step 672; user is prompted to update request quantity as shown in step 674; user is prompted to update request receiving terminus as shown in step 676; and the user is then taken back to the track request menu at step 660. Should the user choose delete request at step 678, the user is prompted to specify an existing request as shown in step 680, the user is prompted to delete specified request at step 681 and then the system returns the user back to the Track Request Menu at step 660. Should the user choose go back to the previous menu at step 682 the user is taken back to the Main Menu at step 618.

Should the user choose Update CC: Share List at step 683, the user is taken to the update cc: share list menu as shown in step 684. From this menu the user is provided with five options: create new share list as shown in step 685, remove existing share list as shown in step 688, add new buddy to the list as shown in step 692, remove buddy from the list as shown in step 695, and go back to previous menu as shown in step 699. Should the user

choose create new share list at step 685, the user is prompted to add new share list to system DB and then the system returns the user back to the Update cc: share list menu at step 684.

Should the user choose remove existing share list at step 688,

5 the user is prompted to specify an existing share list as shown in step 690, the user is prompted to remove specified share list from system database as shown in step 691 and then the user is returned to update cc: share list menu as shown in step 684.

Should the user choose add new buddy to the list at step 692, the

10 user is prompted to specify an existing share list as shown in step 693, the user is prompted to add new buddy to the specified list at step 694 and then the user is taken back to the update cc: share list menu as shown in step 684.

Should the user choose remove buddy from the list at step

15 695, the user is prompted to specify an existing share list at step 696, the user is prompted to specify an existing buddy at step 697, the user is prompted to remove specified buddy from the specified list at step 698, then the user is returned back to the Update CC: Share List Menu as shown in step 684.

20 Should the user choose go back to previous menu the user is taken back to the Main Menu as shown in step 618.

Figure 13 illustrates a flow chart diagram for an Advertiser [or Information Supplier] Account Holder. Regarding the Supplier Use Case Statement (Figure 13), Supplier uses @MyRequest panel to
25 enter the specification of his/her commercial advertisement

inventory. The system ensures that the Supplier has already signed up for the service before processing the request. If Supplier is not already signed up for the service, the system will prompt Supplier for some basic information (such as e-mail or other eMessaging address, accounting/financial information) via the service sign-up panel and process the request once sign up process is validated. Supplier can specify the category, start/end date for his/her commercial advertisement/information, the target budget, prospect preference hierarchy, frequency, reach (or percentage of the market), response, goals, etc. The Supplier has the option of making changes to request specification or account information later.

This flow chart diagram is the counterpart of the diagram in Figure 12. This means while the user makes request in the flow chart shown in Figure 6, advertisers fulfill the user's request as well as setting the parameters by which the advertisers are willing to provide the advertisements. At the very beginning stage of the logic flow, a determination is made regarding whether an advertiser has already registered, as shown in step 702. If yes, the advertiser signs in at step 716. If no, then the advertiser must sign up for the on request service at step 704, enter advertiser contact information at step 706, enter advertiser billing account information to the provider of the at my request service at step 708, enter advertiser preference information at step 710 and information collected from the

foregoing steps are added to an advertiser information system database, as shown in step 712. The system of the present invention then sends relevant information to the advertiser contact address to confirm that an account has been successfully established and the advertiser can sign in the system of the present invention to use services associated therewith, as shown in step 714.

After signing in at step 716, a main menu is provided at step 718. The advertiser may select one of many service options including adding new commercial information at step 720, tracking account information at step 732, tracking commercial inventory status at step 754, and signing off at step 784.

Once the advertiser selects the adding new commercial information option at step 720, the advertiser may define commercial information category at step 722, define commercial information budget at step 724, define commercial information duration at step 726, define commercial information coverage goal/frequency at step 728, define other commercial information preferences at step 730, and finally return to the main menu for other selections.

Should the advertiser choose to track account information as shown in step 732, the advertiser is taken to the track account information menu at step 734 and provided with three options: update account information at step 736, check account balance at step 744 and go back to previous menu at step 752. Should the

advertiser choose to update account information as shown in step 736, the advertiser is prompted to update contact information at step 738, the advertiser is prompted to update billing/account information at step 740, the advertiser is prompted to update
5 preference information at step 742, then the advertiser is returned back to the track account information menu at step 734. Should the advertiser choose check account balance as shown in step 744, the system queries the history/balance of the advertiser at step 746 and the advertiser is prompted to make a
10 payment at step 748. If the advertiser makes a payment at step 748, the payment is processed at step 750. If the advertiser chooses to not make a payment, the advertiser is taken back to the track account information menu as shown in step 734. Should the advertiser choose go back to the main menu as shown in step
15 752, the advertiser is taken back to the Main Menu as shown in step 718.

Should the advertiser choose to track commercial information inventory status as shown in step 754, the advertiser is taken to the track commercial information inventory menu as shown in step
20 756. From this menu the advertiser has four options: query commercial information inventory at step 758; delete commercial information inventory at step 764; update commercial information inventory at step 770 and go back to previous menu at step 782. Should the advertiser choose query commercial information
25 inventory as shown in step 758, the advertiser is prompted to

enter query specification at step 760, the system returns results from the query at step 762 and the advertiser is taken back to the track commercial information inventory menu at step 756.

Should the advertiser choose delete commercial information

5 inventory as shown in step 764, the advertiser is prompted to specify an existing commercial information inventory at step 766, the advertiser is prompted to delete specified commercial information inventory at step 768 and then the advertiser is taken back to the track commercial information inventory menu as shown in step 756.

Should the advertiser choose update commercial information inventory as shown in step 770, the advertiser is prompted to update commercial information budget at step 772; the advertiser is prompted to update commercial information duration at step 774; the advertiser is prompted to update commercial information coverage goal at step 778; the advertiser is prompted to update commercial information frequency at step 776; the advertiser is prompted to update commercial information category at step 780 and then the advertiser is taken back to the track commercial information inventory menu as shown in step 756.

Should the advertiser choose go back to the main menu as shown in step 782, the advertiser is taken back to the Main Menu as shown in step 718.

Should the advertiser choose to sign off 784 from the main menu 718, the system resets the supplier session state as shown in step 786 and then terminates the session as shown in step 788.

Once the advertiser selects the tracking advertisement status

5 option at step 740, a track advertisement menu is given at step 742 so that an advertiser may select a number of options including querying advertisement information at step 744, updating advertisement information at step 750 and removing advertisement information at step 762, among other possible
10 options. If the querying advertisement information option is selected at step 744, the advertiser may enter query specification at step 746 and allow system to return results from the query at step 748 before returning to the track advertisement menu at step 742.

15 If the advertiser selects the update advertisement/information option at step 750, the advertiser may update advertisement budget at step 752; update advertisement frequency at step 754; update advertisement category at step 756; update advertisement reach at step 758 and update advertisement
20 duration at 760 before returning to the track advertisement menu at step 744.

If the advertiser wishes to remove advertisement information thus chooses such an option at step 762, advertisement is then removed at step 768 before returning to the rack advertisement
25 menu at step 742. Should the advertiser wishes to exit the track

advertisement menu at step 742, the advertiser is returned to the main menu at step 718.

If the advertiser has completed setting all desired options, then the advertiser may sign off at step 764. The system resets advertiser session state at step 766 and all logic flow terminates at step 770.

Figure 14 illustrates a flow chart diagram for the processing of requests by the present invention. Regarding the System Use Case Statement, after the system has received a request from Subscriber, it looks into its inventory (OrderBook component in Domain Modeling) to see if it can satisfy the Subscriber's request. If it finds the matching item in the inventory, it has an execution. The system then generates two Info Match Up Reports for both Subscriber and Supplier. When Subscriber's Portfolio receives the Info Match Up Reports, it sends an email to Subscriber using the predetermined keyed email address (generated during signup process) with the attached inventory information. When Supplier's Portfolio receives the Info Match Up Reports, it updates the account information to indicate that a complete or partial portion of his/her inventory has been satisfied. When items in Supplier inventory have been satisfied up to a pre-defined threshold, the system will send out email to Supplier using predetermined keyed email address (generated during signup process) to notify Supplier. If Supplier can choose to extend the period of a specific inventory

item or to renew his/her credit limit he/she can do so via the Supplier @MyRequest panel. If Supplier chooses neither to extend the period of a specific inventory item nor renew his/her credit limit, the system will not further process Supplier inventory

5 when either the pre-defined period is expired or the credit limit has been reached. Subscriber can also specify the category of information he/she is looking for. Subscriber can use the quantity slide bar (or other indicator device) to define the amount of advertisement/informational email to be received, and

10 uses the "time to live" optional check/fill-in boxes to define the duration of advertisement email to be received. Subscriber can also specify other preferences including delivery device terminus, whether to auto-forward to a "buddy list" (cc's or existing list) or new cc's. Subscriber has the option of making

15 changes to request specification later.

The system determines if it has received a new information request at step 1202 if it has the system processes the new information request according to the existing Business Rules at step 1204 and then the system determines if it has one or more

20 matching orders at step 1206. If the system has one or more matching orders the system generates Trade Reports for both subscriber and supplier at step 1208 and then updates Subscriber and Supplier account information at step 1216. Once the account information is updated the system sends notification to

25 subscriber and supplier at step 1218 and the results of the whole

transaction are posted to the audit trail at step 1226. The system then ends the processing of the request at step 1250. If the system does not have one or more matching orders at step 1206 the system then posts new information request to the OrderBook at
5 Step 1210, posts the transaction to the audit trail at step 1226 and ends transaction at step 1250.

If the system has not received a new information request at step 1202, then the system determines whether it has received an Updated Information Request at step 1212. If yes, then the
10 system updates information request in system database at step 1214, updates subscriber and supplier account information at step 1216, sends notification to subscriber and supplier at step 1218, posts the transaction to the audit trail at step 1226 and ends the transaction at step 1250.

15 If the system has not received an updated information request at step 1212, it then the system determines whether it has received a new transaction request at step 1220. If so, the system validates subscriber and/or supplier financial account information at step 1222, processes the transaction at step 1224;
20 and then updates subscriber and supplier account information at step 1216; sends notification to subscriber and supplier at step 1218; and sends information from step 1224 and step 1218 to the audit trail at step 1226. The system ends the transaction at step 1250.

TOP SECRET
5 If the system has not received a new transaction request at step 1220, then the system determines whether it has received a transaction correction request at step 1228. If so, the system finds existing transaction which the subscriber/supplier indicates as needing correction at step 1230, validates the subscriber and/or supplier financial account information at step 1222, processes the transaction at step 1224 and then updates subscriber and supplier account information at step 1216; sends notification to subscriber and supplier at step 1218; and sends information from step 1224; and step 1218 to the audit trail at step 1226. The system ends the processing of the request at step 1250. If the indicated transaction is not found at step 1230, the system then sends an exception notification to subscriber and/or supplier at step 1232 and the information from the transaction is posted to the audit trail at step 1226 and the system ends the transaction at step 1250.

20 If the system has not received a transaction correction request at step 1228, the system determines whether it has received a business rules update request at step 1234. If so, the system updates the business rules at step 1236 and then posts the transaction to the audit trail at step 1226. The system then ends the transaction at step 1250.

25 If the system has not received a business rules update request at step 1234, the system determines whether it has received a performance analysis request at step 1238. If so, the

system gathers performance analysis data from the system at step 1240 and then sends the result to the requester at step 1242 before ending the transaction at step 1250.

If the system has not received a performance analysis request at step 1238, then the system determines whether it has received a demand analysis request at step 1244. If so, the system gathers demand analysis data from the system at step 1246 and then sends the result to requester at step 1248 before ending the transaction at step 1250. If the system has received an unknown request, it ends the transaction at step 1250.

What has been illustrated above is the hardware and software framework for the present invention to be practiced. As readily understood by a person of ordinary skill in the art, the framework can be used to include many more features. To present the features in a more systematic manner, the following tables A and B are enclosed.

TABLE A

1. Basic On Request Information Control Utility
 - 1A Combination of user-customizable, on-request information control utility with an eMessaging system whether such system is an "open access" system or an authentication-based, private system:
 - a) Wherein such eMessaging system is an e-mail system
 - 1 Wherein such on-request utility is integrated as POP or IMAP e-mail systems or as Web-based mail, with transmission via telephone dial-up, leased line, cable-based, satellite or wireless means
 - b) Wherein such eMessaging system is an Instant Messaging application, such as Jabber
 - c) Wherein such eMessaging system is a wireless eMessaging/short text messaging system (WAP or other), pager, wireless PDA, etc.
 - d) Wherein such eMessaging system is an addressable television system whether transmission is via analog cable, digital cable, over-the-air broadcast, digital broadcast, digital satellite or other related method of transmission
 - 1B Incorporating such user-customizable information control utility as a desktop application or desktop shortcut [aka "alias"] which is "always on" (but minimized until

needed) or quickly loaded by way of a simple double click procedure using an Internet

Protocol for message delivery

1C Embodying such, user-customizable, on-request information utility as a browser plug-in or pull-down, using Java, XML, et al.

1D Wherein such utility operates within a "closed loop e-mail marketing channel" (i.e.,

where knowledge of the user's behavior with respect to all delivered information is

"visible" to the system) or is incorporated with various non-proprietary e-mail systems and other eMessaging systems (wherein user's specific behaviors are not trackable by the On Request Utility)

2. User Customization Of Criteria for Requested Information

2A Customizing, on-the-fly, request parameters/criteria using such an on-request information control utility

2B Wherein *duration* of request (i.e., how long to keep each request active) is:

a) Self-designated by user

b) Specified by use of fill-in spaces for number of days/weeks/months/years, or by use of check-offs or buttons

c) Defined by user as "open", that is, having no pre-set time limit

- d) Determined by user setting a specific time/date to activate; and a specific time/date to cut off or end the "active" request
- e) Based on a time period "default" which is established by the system as a derivative of the user(s) prior history (as maintained by said system) based on
 - 1) The user's overall average duration
 - 2) The user's average duration for the type of request or specific category of information
 - 3) The overall system's average duration
- 2C Wherein the quantity of information desired may be specified in relative ranges or absolute number of messages delivered
 - a) Whereby the quantity is specified by check-off of pre-designated numbers, filling in/typing in of same, by a slide bar or user-highlighting on a graphic field representative of relative quantity
- 2D Wherein the time of day is indicated
 - a) In which to search for such requests
 - b) In which to deliver requests
 - c) Or, some combination of 2Da and 2Db
- 2E Wherein the frequency of desired information delivery is specified as a repetitive pattern (e.g., "every Wednesday")

- 2F Wherein the terminus (i.e., which e-mail or eMessaging device) for delivering such on-request information is specified
- a) With respect to the priority for forwarding such requested information by e-mail or other eMessaging system to other devices like pager/PDA vs. desktop (e.g., "high urgency" information)
- 2G Specifying that only requested information of a certain promotional type is to receive priority treatment, for example, if discount, special deal/offer is present
- 2H Specifying that information to be received is based on user's willingness to buy in certain ways and/or from certain parties (e.g., direct from manufacturer)
- a)
- 2I Specifying the geography from which or about which information is sought (e.g., local stores, local venues, etc.)
- 2J Specifying that information of requested type be provided despite its lack of fresh currency, if still active, (e.g., whether or not a sale has started, if it is still on, inform user)
- 2K Specifying priority of delivery based on how well the available information scores on "fit" with the specific request parameters

- 2L Specifying that new information, which may become available over time, relevant to the desired request, be forwarded and that such qualified requests be maintained on an "Information Request Account" (rather than the user's name being simply put on a defined, e-mail list--that is just people to whom to send who want X, Y, Z type of information)
3. Extension of On Request Information Utility To Outside Web-based Content Providers
- 3A User-customization of request parameters wherein information updates desired from a given web site/information provider may be requested to be automatically sent to the user by means of the On Request eMessaging system
- 3B Scoring the updated information based on degree to which it fits the user's original request parameters
- 3C Employing such scoring schema (of 3B) to designate a priority level for such information and the delivery based on same, according to user-defined priority rules (e.g., Priority Level I: forward to my wireless PDA, etc.)
- 3D Such request may be made anonymously (with respect to disclosure of user's identity to the information provider) utilizing the on-request system as the anonymizing agent of such request
4. Method for Profiling Users of On Request Info System by Requested Categories, Preferences and Behavioral Actions

- 4A Capturing and recording in a User Information Account, information categories and request criteria as well as behaviors of recipients of such information delivered via an On-Request Information Control eMessaging utility
- 4B Capturing and recording:
- a) Duration of request (actual versus originally designated)
 - b) Amount of information received (actual versus originally requested)
 - c) Treatment of e-mail/eMessage information delivered
 - d) # categories active/which categories/which specific products, items or brand/companies
- 4C Said Information Account maintains a record of prior usage history
- 4D Employing user customized preferences re: requests for "active duration" and "information amount" as a surrogate for how close to the "purchase window" the user is
- 4E The system directly polls users for their "in-market" status and readiness to buy for major purchases (for example new car)
- 4F Employing such purchase/usage intentionality index to allow for more refined targeting and premium pricing to advertisers
- 4G "Flagging" such individual users according to current and/or predictive status

- 4H Data mining of user preference data, polling response, and behavioral actions to calculate "purchase/usage intentionality index" for each participating user for any given category of requested information, product, brand, company or organization.
5. On Request Information Account
- 5A Maintaining the individual user requests, fulfillment of such requests and behavioral actions of the recipient to such delivered information via an individual user Information Account in an On Request Information Control Utility
- 5B The Information Account makes a record of the information requests made by the user
- 5C The method of claim 5A wherein the Information Account maintains a record of the user's specific identifiers according to user-supplied information such as: e-Mail Address (Wired/Wireless); Web site "Lockbox"; Other e-address; Real/Screen Name; Address Phone; Etc.
- 5D The Information Account maintains the parameters or criteria the user has specified for each of his/her currently active requests (e.g., active duration; quantity, frequency; delivery terminus; geographic specificity et al.)
- 5E The Information Account keeps a history file of prior and concluded requests
- 5F The Information Account keeps a record of the behavioral responses of the user/recipient with respect to the prior On Request messages/ emails delivered
- 5G The Information Account keeps track of "purchases" of information made by the user

- 5H The Information Account keeps track of pre-payment files and debits according to usage/purchases (for example, wherein user has "loaded" his micropayments account and system decrements when he "buys" information that is not free)
- 5I The Information Account maintains process interface with billing and/or credit card systems and/or micro payment systems
- 5J The Information Account provides mechanism for multi-user aggregation (e.g., of members of XYZ Affinity Group using system)
- 5K The Information Account provides for linkage with independent auditing function on census or sampling basis
- 5L The Information Account provides mechanism for extracting data for statistical analysis, trend tracking and reporting of individual usage/behavior and aggregated data to system admins and other parties with a need to know
- 6. Functionality to Facilitate Payment for Information Offered Via an On Demand Request-based Utility
 - 6A Enabling payment for information requested through an On Request Information Control Utility
 - a) Enabling user to pay to receive information (e.g., special report downloaded) with payment handled by: credit card charge; Micropayment system; "Bill Me" method)

b) Enabling outside party (e.g., Marketer; ISP; Portal; Affinity Group; et al.) to cover the cost for the providing and downloading of the user-requested information, wherein payment is

1) Made fully by single outside party;

2) Subsidized in part by one or more outside parties and the balance by user

3) Is covered by the On Request Utility itself

6B Establishing accounts for paying parties; decrementing and/or aggregating \$ amounts, reconciling and billing or same

6C Decrementing "stored value" in the user's account for requests for information requiring some type of payment in exchange for the information delivery

6D Waiving any charges on behalf of users that are "preferred," who are at risk (i.e., they have signs of attrition) or who have accumulated "stored value" either with the system itself or via a partnering promotional organization.

6E A "contact token" that is pre-loaded with "micropayment value" is used to cover such payment

7. Customizable On Request Utility As Browser Pull-Down/ Pop-up

7A Combining such an On Request Information Control Utility as a browser-embedded functionality or pop-up

7B The utility is embodied as a tiny electronic messaging panel or window, which

a) Communicates to the On Request web system or web site to "order" information/ or post "demand"

b) Notifying the user when "information demand" is met with "supply," utilizing an instant messaging protocol (like Jabber) or other Internet Protocol to inter-communicate

7D The delivery terminus for such requested information may be specified/pre-set for any or all such requests

a) By pressing "now" to open up to the On Request web site and going to the user's personal lock box

b) By having requested information sent as e-mail/eMessage to the user's e-mail/eMessaging account (Wired; Wireless)

8. Information Exchange Utility

8A Matching user-customized demand for information with supply of information via an

Information Commerce Exchange wherein "demand" for information/offers by users and "supply" of information/promotional deals from marketers are matched, comprising a plurality of steps

a) Posting of "demand" by users for specific information requested

b) Entering of specific request criteria or parameters, such as:

1) Quantity desired

ELECTRONIC MESSAGING SYSTEM AND METHOD THEREOF

Field of the Invention

The present invention is in the field of electronic messaging system operatively integrated in the network arena encompassing the wired and wireless space.

Background of the Invention

The commercial electronic messaging market has experienced significant growth in the past few years. Jupiter Communications projects another 40-fold of increase in growth in this area; particularly, in commercial e-mail volumes, primarily because e-mail is a cost-efficient, highly effective response-rate system and method by which to make contact with, acquire, cultivate and retain customers, for promoting and selling products/services, building loyalty and reinforcing brand identity.

The current and projected growth in commercial emessaging volume increasingly strains user patience and impacts marketing effectiveness of this medium of communication. For example, the average number of commercial e-mail messages that consumers receive was 40 over the course of 12 months during 1999, excluding unsolicited e-mail or "spam" in the form of chain letters, duplicate postings, etc. By 2005, the average number of commercial e-messages alone is projected to grow to more than 1,600 annually. This translates to 4.4 commercial e-messages per day per average user. Overall, non-marketing e-mail and other e-

- 2) Duration: How long to keep "active" (duration)
- 3) Geography
- 4) Shopping preferences, etc.
- 5) Deal/price parameters
- 6) Et al.
- c) Posting of active "supply" by information providers/marketers and tagging such information by key characteristics such as product/service category; Price; Incentive/deals; Timing/terms, etc.
- d) Matching of information "demand" with "supply"
- e) Extracting a financial charge from the supply side/marketer (or, as appropriate, the demand side/user) for the completed exchange transaction
- f) Billing the payer for the transaction
9. Demand Aggregation and "Access-to-Market" Reverse Auction (among e-Marketers Seeking Preferred Access)
- 9A Aggregating "information demand" from an On Request Information Control Utility, comprising a plurality of steps:
 - a) Compiling actual requests
 - b) Calculating predictive demand based on historical data

- c) Direct polling/questioning of user's "in the market"/readiness-to-buy status
- 9B Operating a real-time "reverse auction" to Marketers of current (or predictive) "demand", derived from users of On Request Information Control Utility, comprising a plurality of steps of:
 - a) Marketers "bidding" to take top/featured offer position to reach "Best Prospects" (e.g., people in the market to buy a Suburban Sports Vehicle), wherein "best" is highest economic deal for the user of the system and/or the system itself
 - b) Setting terms/time period for "access" and receipt of payment
- 10. In-box On Request Identifier
- 10A Designating delivery "inbox" of e-mails or eMessages from an On-request Information Control Utility-to give the user a reminder that what is being delivered is a fulfilled request.
- 11. Allocation Method For Disseminating eMessage Inventory For Delivery to On Request User
- 11A Allocating the dissemination of informational "inventory" from multiple information providers/marketers in the same or different categories, [stored on database(s)] to the user of an On Request Information Control Utility, comprising a plurality of steps
 - a) Coordinating, by a set of allocation rules, the request by users ("demand") and the available information ("supply"): whereby such allocation is:

- 1) According to individual user (e.g., don't repeat same e-mail; send e-mail #1 from Advertiser A on first day, e-mail #2 from Advertiser B on second day)
 - 2) According to segments of users
 - 3) According to advertiser-supplied aggregating criteria
 - 4) According to customer list of Affinity/3rd party organization/ marketing entity (e.g., with capability for overall suppression of certain inappropriate categories/brands)
12. Audit of Performance For On Request Utility
- 12A Tracking and certifying what has been delivered to which requesting user(s) and what behavioral actions were taken by the user(s) for the specific information received via the On Request Information Control Utility, comprising a plurality of steps
- a) Confirming with regard to such requested e-mails/eMessages
- 1) Of receipt/delivery in inbox
 - 2) Of opening by user(s)
- 12B Such tracking and recording is done within a "closed loop" on-request utility (i.e., where eMessaging interface is controlled/integrated with the On Request Utility) and covers such data as:
- a) Delete without opening; Delete after opening; Time stamp action(s); Respond;
- Forward/Copy; Store; Print

12C Such tracking and recording is done when the On Request Utility does not control the user interface (e.g., by an embedded code script in the delivered eMessage which automatically sends a communication back to the On Request server if the e-mail/eMessage is opened/when it is opened, e.g., via Jabber)

12D Such tracking and recording is done by way of:

a) An embedded code that sends "message" back to On Request server if e-mail/eMessage is opened with respect to:

- 1) Delete without opening; Delete after opening; Time stamp action(s); Respond;

Forward/Copy; Store; Print

12E Such tracking involves the determination of how much time the user has spent with the requested e-mail by use of a time stamp at open and closing

13. On Request eMessage Delivery To Alternate User Device(s)

13A Specifying delivery to alternative terminus "devices" for users of an On Request Information Control Utility wherein such device terminus may involve transmission:

Via e-mail to prime e-mail account whether protected by an Authentication system or not

Via wireless device (PDA; Cell phone; Blackberry unit, etc.)

Via pager

Via TV/Digital TV Addressable Advertising System

Via WebTV

To On Request web site "personal box" ("Web Storage Box")

Via voicemail/phone (automated/non-automated) whether over land line or cellular

Via Facsimile

13B Specifying a "cascading" instruction for where to deliver based on user hierarchical preferences and priorities by way of:

a) User input on customization screen

b) Default to most frequently requested alternate terminus/termini

13C Determining whether a delivered information eMessage was opened and, if not opened in "X" minutes, the release of a communications back to the sender is triggered

13D Switching on/switching off such delivery instructions

a) For all requests

c) For specific request

b) For time period

14. Feedback From User Re: Quality of Requested Information

14A Facilitating users of an On Request Information Control Utility to give immediate feedback on the quality of the information provided, by a plurality of means:

a) On-screen pop-up "fill-in" form

- b) Form at bottom of e-mail/eMessaging "frame"
- 14B Incentive to fill in such feedback to be paid by the information provider/advertiser or by the system itself
- 14C Collection of such feedback per user is aggregated to user segment and/or aggregated to information category
- 14D Such user-supplied feedback is integrated with on request/behavioral action data captured by the system for profiling of users for future request fulfillment accuracy
- 15. Banner Ad Cross-Linkage Within e-Mail or eMessaging System Featuring On Request Utility
- 15A Controlling banner ad insertion in support of utilization by users of the On Request Information Control Utility of specific "categories" of request or overall Utility usage
 - a) By utilizing collaborative filtering method to predictively select categories/users
 - b) By selection of banner ads to reinforce specific Request(s) already delivered—that is, to run banner ads after the user receives the information requested by e-mail/eMessages
- 16. Control Over Advanced eMessaging Formats Within On Request Utility
- 16A Controlling and limiting the delivery of On Request e-mail/eMessaging formats according to advertiser contract; e.g., for "X" period of exclusivity, "Y" category covering:
 - a) HTML
 - b) Video

c) Audio

d) Enhanced navigable video (v.3.0?)

17. Sequential/Seriotic e-Mail/eMessaging

17A Customizing sequential e-mails/eMessages according to user-supplied self-profiling information at the start of the series, comprising a plurality of steps:

a) Providing personal information input in response to first e-mail/eMessage

1) That is, initiating the eMessaging series with a survey first/driving "first communication contact" to solicit user profiling data

b) Customizing subsequent communication content in the series of e-mails/eMessages, based on the user-supplied profiling information of the first contact and, thereby, "chunking" out the sales message over time, customized to the user's profile

18. Special Ad Charges For Enhanced Targeting/Message Formats Within On Request Utility

18A Establishing, certifying and billing advertisers for enhanced types of e-

mail/eMessaging targeting, format or multiple linked/seriotic e-mails, delivered via an On

Request Information Control Utility

18B Such targeting and associated billing is based on:

a) Intentionality Level (pay more to reach prospects "closer to a purchase")

b) Charge for key demos/buyer-prospect behaviors

- c) Charge for "forwards" (1X)
- d) Charge for seriotic e-mail/eMessaging (iteratively customized series of e-mails/eMessages triggered by initial response to a profiling survey)
- e) Charge for rich media e-mail/eMessaging formats-HTML/Video; audio
- 19. Advertiser/ Marketer Information Account For On-Request Utility
- 19A Operating a Marketer Information Account by which a marketer/advertiser may establish his objectives and budgets and post e-mails/eMessages to be used for a given On Request effort and receive updates/postings on performance to date and on predictive performance
- 19B The advertiser may set budget and other targets: e.g., Frequency; Reach; Goals; Start/end date
- 19C Enabling the system to be predictive and proactive with respect to approaching of budget cut off and to send e-mail (or, other contact communications) to Advertiser/Agency
- 19D Enabling the advertiser to establish/populate/update a "pool" of e-mails for rotation of presentation
- 19E Enabling the advertiser to post-updates to web site, central database facility or series of distributed databases
- 19F Enabling the system to maintain "Quality Assurance" over the advertiser's information posting procedure by System Administrator

- 19G Prioritizing e-mail/eMessages of advertiser content by Delivery Mode (e.g., to mobile users)
- 19H Enabling the means for advertiser/agency to revise/summarize the plan online
20. Anonymous Response By User To Information Provided On Behalf of Content Providers/Advertisers Via On Request Information Control Utility
- 20A Enabling users to respond to information forwarded by On Request Information Control Utility *anonymously* via a Response Center
- 20B The system subsequently secures further information from advertiser and forwards to the e-mail/eMessaging to the given user/respondent
- 20C The user is enabled to utilize a request form provided by On Request Utility for making such request
- 20D Aggregating of user response and forwarding to Marketers/Information Provider who have not yet signed up with the service as an official (paying) advertiser
- 20E The user may respond to the advertiser's e-mail using a One Time Reply token or key, via application of patented (AuthentiMail) ["1X Reply e-mail/eMessaging option] or an as yet unpatented method of achieving same
21. Mobile/PDA Application of On Request Information System

- 21A Facilitating "Just-In-Time" e-mail/eMessaging of an "On Request Information Control Utility" for mobile communications device(s)
- 21B Establishing on request "categories" desired for information to be delivered to user's mobile device(s)
- 21C Customized user preferences are established for such requests, covering:
- a) When in X,Y,Z geography
 - b) When "planning" to be in X,Y,Z
 - c) Priority: [e.g., only send e-mail/eMessaging related to "deals;" or that meet 100% of my request criteria; or are from XYZ sender(s)]
 - d) Geography defined by City, Town and location as determined by GPS cellular translation
 - e) "Reverse Opt-in": [if sale started yesterday, tell me- what specials/events are currently happening (e.g., theatre venues, restaurant, specialty goods, sales events; community events, local retailers)]
 - f) Delivery/Terminus Device: [e.g., Blackberry units/PDA-Palm/Cellular, pager or forwards to user's laptop (i.e., wired account)]
 - g) Time of day
 - h) Date/period of days [Specifically defined; repetitive--"every Wednesday"]
22. Local Market- Just-In-Time On Request Information eMessaging Utility

- 22A Integrating an On Request Information Control Utility into the cellular/wireless network(s) to function in remote cities (i.e., when user is traveling), comprising a plurality of steps:
 - a) Pre-setting of the system by the user to trigger requested categories when portable device is in given city, (e.g., "when in LA, get me deals on Dodgers games...")
 - b) Inputting by user of requested information categories, preferences/criteria and priorities via On Request Utility at web site, e-mail interface, browser embodiment (see above), on the wireless device itself or by voice interaction
- 22B Specific parameters are inputted by the user with respect to requested information:
 - a) When to deliver: e.g., early AM; PM; Late PM; Ongoing
 - b) Date/period of days of active duration
 - c) Delivery to terminus device(s) of preference: e.g., Wireless; PDA; Laptop;
 - d) Geographic specificity of information
- 22C Local market-based information providers, stores, event venues, restaurants, organizations, et al. post relevant information to systems database
24. Customized Electronic Incentive Voucher
- 24A Providing an electronic refund or coupon value voucher to users of On Request Information Control Utility

- 24B Value is determined by the "purchase intentionality" score of the user
- 24C "Feedback"/validation of use of said electronic coupon/voucher is captured by the On Request system, determining that purchase has been made and linking same to promotional funds access/billing system
25. Proactive Solicitation by On Request System of User's Interest
- 25A Directly polling users of an On Request Information Control Utility via e-mail/eMessaging, to facilitate user-supplied self-profiling information related to:
- a) Requesting updates/offers from marketers, organizations, local stores, etc. (in preferred status)
 - b) Enabling companies/organizations to have their users self-identify (e.g., "These companies are looking to contact you:" if interested, the Request Utility can send e-mail/eMessaging)
26. On Request Internal System Capabilities
- 26A System provides for operational control of
- a) Information requests
 - b) Information dissemination
 - c) Tracking of all related behavioral actions
 - d) Auditing of delivery

- e) Billing
- f) Payments

within an On Request Information Control Utility

26B The On Request system generates tracking codes for each advertiser, each e-mail/eMessaging and each billing event, et al.

26C Each user is given his own On Request e-mail/eMessaging Information Account for receipt/delivery and behavior tracking

26D Advertisers can post their latest e-mail/eMessaging offers onto the On Request Utility's central DB or distributed databases directly or via a B2B web site

26E Advertisers can access current performance data on their promotional e-mail delivery and budget status

27. "Targeting Pool" Re-Aggregation With On Request Utility

27A Re-aggregating users in the database of an On Request Information Control Utility into "better quality" targeting segment(s), thereby creating the hierarchical prospectivity pool, so as to optimize "on the fly" advertiser reach/targeting performance

27B e-Mail/eMessage dissemination is delivered first to the higher intentionality/value segments of users in the hierarchy and then to the lower; or in any combination thereof

28. Networking Multiple Applications And Embodiments of On Request Information Control

Utility

28A Networking together multiple On Request Information Control Utility applications and their respective user bases to enable: System Integration; Scale economies; Aggregation of information demand; Aggregation of audience for advertiser "reach" requirements

29. On Request Message Customization

29A Customizing elements of the e-mail/eMessage to different users, (delivered as a result of individual utilization of On Request Information Control Utility) according to: content; offer; price; et al. and discrete "knowledge" of user's profile (behavioral; self-reported; inferred; et al.)

30. Expandable Input Form for On Request Utility

30A Expanding the size of an input form for an On Request Information Control Utility

30B Wherein the input form appears as part of the GUI

30C Wherein the form is embodied as a pull-down from the browser

30D Wherein the form is embodied as a pop-up or window

30E Wherein the form is embodied as a third party web site/portal functionality

30F Wherein the input form is embodied as its own self-standing web site or portal

- 30G Wherein the input form has an irreducible size in which its basic functions are incorporated and it expands in size as the user designates more "active requests,"
- 30H Wherein the expansion of the input form continues until a system-designated limit (e.g., 4-6 lines) of "active requests" is reached and then any additional active requests are made available by scrolling up or down
- 31. Application of SAIC's MISTI to On Request eMessaging Information System
- 31A Combining MISTI (patented system for supply chain integration) as fuzzy logic input and search system for an On Request Information Control Utility
- 31B First polling On Request Utility "Central Posting Database" or distributed databases for relevant offers/information
- 31C Searching the Web for "same"
- 31D Polling/comparing data sets
- 31E Selecting for each user a "set" of information relevant to the specific request/requestor
- 31F Extracting web site info and "repackages" as e-mail/eMessage, within On Request Utility's "format"
- 32G Enabling the user to respond via e-mail/eMessage by way of the On Request Utility
- 32H The Request Utility "forwards" to marketer the "responses"

Category	Specific Feature/Aspect	Linkage	IP	v1	v2	v3
Basic AMR Concept	• Patent:		5	Y		
	– Dynamically, user controlled and customizable, on-demand request system for information by electronic messaging		5	Y		
	– The combination of such on-request utility with base e-mail utility or other eMessaging system		5	Y		
	– Such on-request utility:					
	• Integrated with Instant Messaging utility					
	• Integrated with wireless eMessaging/short text messaging system (WAP or other), pager, PDA, etc.					
	• Integrated with an addressable television system whether via cable, digital cable, over the air broadcast, digital broadcast, digital satellite or other related method of transmission					
	• Integrated as a desktop application which is "always on" (but minimized until needed) or quickly loaded by way of a simple double click procedure					
	• Such a utility is dynamically, user self-customizing, on-request utility primarily for commercial/non-personal e-mail (BASIC)		5	Y		
	• Such a utility may operate as an enhanced on-request utility within a "closed loop e-mail marketing channel" like ZoEmail or made available to the broader user base of e-mail and other eMessaging systems		5	Y		

Category	Specific Feature/Aspect	Linkage	IP	v1	v2	v3
User Customization Of Criteria for Requested	<ul style="list-style-type: none"> Method to configure such on-request utility for use by dial-up/cable-based/satellite-delivered Internet Service Provider and as Web-mail for POP or IMAP 		5	Y		
	<ul style="list-style-type: none"> Or, embodied as a web site; or as a pop-up; or pull down embedded in browser (see below) 		5	Y		
Information	<ul style="list-style-type: none"> Method for dynamic customization of on-demand, request parameters/criteria by such a utility 		5		Y	
	<ul style="list-style-type: none"> On-request self-customization message request/delivery interface 		5		Y	
	<ul style="list-style-type: none"> Duration: how long to keep each request active 		5		Y	
	<ul style="list-style-type: none"> Self-designated by user 		5		Y	
	<ul style="list-style-type: none"> Fill-in spaces for days/weeks/months, check-offs or buttons 		5		Y	
	<ul style="list-style-type: none"> Time/date to activate (specific "on/off" repetitive calendar (e.g., every Tuesday)) 		5		Y	
	<ul style="list-style-type: none"> User(s) prior history maintained 		5		Y	
	- Average					
	- Average for category					
	- Total system average					

Category	Specific Feature/Aspect	Linkage	IP	v1	v2	v3
	– Time of day		5		Y	
	– Date/period of days <ul style="list-style-type: none"> • Specific • Repetitive (e.g., "every Wednesday") 		5		Y	
	– Quantity desired: "a little" to "a lot" <ul style="list-style-type: none"> • Check-offs or slide-bar 		5		Y	
	– Delivery terminus and priority for "cascade" effect to other devices like pager/PDA vs. desktop <ul style="list-style-type: none"> • Builds on Unified Messaging scheme; with custom interface 		5		Y	Y
	– "Deal" priority/discount* <ul style="list-style-type: none"> • Send only "hot" stuff 		5		Y	
	– Willing to buy direct from manufacturer*		5		Y	
	– Geography* <ul style="list-style-type: none"> • Stores/buying local property, etc. 		5		Y	
	– "Reverse J-I-T": even if a sale has started, if it is still on, inform user		4		Y	

Category	Specific Feature/Aspect	Linkage	IP	v1	v2	v3
	<ul style="list-style-type: none"> – Priority delivery based on scoring of "fit" with user-request parameters 		4		Y	
	[* Advanced/more personalized criteria on a larger interface/pop-up]					
"Just-In-Time" On-Request eMessaging	<ul style="list-style-type: none"> • Method for employing user customization of requests for "active duration" and "information amount" as a surrogate for how close to the "purchase window" the user is 		5	Y		
Functionality	<ul style="list-style-type: none"> • Method by which system can poll users for their "in-market" status and willingness to buy for major purchases (for example new car) 		5	Y		
	<ul style="list-style-type: none"> • Method for data mining of user customization data (as well as polling response) to calculate "purchase intentionality index" for each participating user of any given category of information or product. 		5	Y		
	<ul style="list-style-type: none"> – Use of indexing method to allow for more refined targeting and premium pricing to advertisers 		5	Y		
On Request Information Account	<ul style="list-style-type: none"> • Method whereby users of an On Request Information Utility maintained on an individual user Information Account that: <ul style="list-style-type: none"> – Keeps track of the information requests made by the user – Maintains the parameters or criteria the user has specified for the requests (e.g., active duration; quantity, frequency; geographic specificity et al.) – Keeps a history file of prior requests 					

Category	Specific Feature/Aspect	Linkage	IP	v1	v2	v3
	<ul style="list-style-type: none"> Keeps a record of the behavioral responses of the user/recipient in respect of the On Request emessages/ emails delivered Keeps track of "purchases" of information made by the user Keeps track of pre-payment files and debits according to usage/purchases <ul style="list-style-type: none"> Example: User has "loaded" his micropayments account and system decrements when he "buys" information that is not free Maintains process interface with billing and/or credit card systems and/or micro payment systems Provides for linkage with independent auditing function on census or sampling basis Provides mechanism for multi-user aggregation (e.g., of members of XYZ Affinity Group using system) Provides mechanism for statistical analysis, trend tracking and reporting of individual usage/behavior and aggregated data 					
Functionality to Facilitate Payment for	<ul style="list-style-type: none"> Means to enable payment for information requested through an On Demand Utility that sends such desired information via eMessaging system. 		5		Y	
Information Offered Via an	<ul style="list-style-type: none"> Given that access to some such information will not be "free," the method would enable the following: 					

Category	Specific Feature/Aspect	Linkage	IP	v1	v2	v3
On Demand Request-based System	a) User pays to receive information (e.g., special report downloaded) with payment handled by: <ul style="list-style-type: none"> • Credit card charge • Micropayment system • "Bill Me" method 					
	b) Marketer pays for the providing and downloading of the user-requested information <ul style="list-style-type: none"> • Fully paid by single marketer • Subsidized in part by marketer and by user • Paid in part by marketer and balance by one or more other outside parties 		5		Y	
	c) A channel partner (e.g., ISP, Portal, Affinity Group) may cover all or part of any such charge					
	d) On Request system itself covers the cost of the information and its being provided to the user					
	• Means of establishing accounts for paying parties; decrementing and/or aggregating \$ amounts and billing same					
	• In all instances, the system can waive any charges at the discretion of the information provider or sponsor					

Category	Specific Feature/Aspect	Linkage	IP	v1	v2	v3
	<ul style="list-style-type: none"> The system can waive any charges on behalf of users that are "preferred," at risk (i.e., they have signs of attrition) or who have accumulated "stored value" either with the system itself or via a partnering promotional organization. When the system operates on the basis of a user having been granted "stored value," he may decrement this "shared value" as he makes requests for information requiring some type of payment in exchange <ul style="list-style-type: none"> E.g., a 25 page report on arthritis is available for "50 micropoints"—which are decremented from his micropayment account, which had been "loaded" by the Pharmaceutical company who makes XYZ medicine for arthritis Alternative Method: use of "contact tokens" which are pre-loaded with "micropayment value" (see separate entry) 					
Method for Profiling Users of On Request Info System by Behavioral Actions	<ul style="list-style-type: none"> Mechanism for tracking of behaviors with respect to the "At My Request™" e-mail system (related to "Information Account") <ul style="list-style-type: none"> Duration of request Amount of information demanded Treatment of e-mail/information delivered 		5	Y		

Category	Specific Feature/Aspect	Linkage	IP	v1	v2	v3
	<ul style="list-style-type: none"> By pressing "now" to open up On Request web site and going to his personal lock box By having it sent as e-mail to his e-mail account: <ul style="list-style-type: none"> Wired Wireless By other delivery mode Priority of Delivery Method can be pre-set by user 		5		Y	
			5		Y	
			5		Y	
			5		Y	
			5	Y		
			5		Y	
			5			
			5		Y	
Information Exchange	<ul style="list-style-type: none"> Method for providing a Marketing Information Exchange Utility (Direct Information Marketplace or Commerce Exchange) <ul style="list-style-type: none"> Where "demand" for information/offers and "supply" of marketer/info and deals connect User posts/announces "demand" for X,Y,Z information <ul style="list-style-type: none"> Quantity desired How long to keep "active" (duration) Other criteria <ul style="list-style-type: none"> Geography Shopping preferences, etc. Deal/price parameters 		5	Y		
			5		Y	
			5			

Category	Specific Feature/Aspect	Linkage	IP	v1	v2	v3
	<ul style="list-style-type: none"> - Marketer has posted active "supply" • Product/service information • Price • Incentive/deals • Timing/terms 		5	Y		
	<ul style="list-style-type: none"> - System matches "demand" with "supply" • Extracts \$ charge from supply side 		5	Y		
			5	Y		
Demand Aggregation and "Access-to-Market" Reverse Auction (among e-Marketers Seeking Access)	<ul style="list-style-type: none"> • Means for On Request Utility system to aggregate "information request demand" 		5		Y	
	<ul style="list-style-type: none"> - Actual responses - Predictive/proactive • Based on inference: intentionality/intensity/duration of request(s) mode - By direct polling/questioning of user's "in the market" status 		5		Y	
			5		Y	
			5		Y	
			5		Y	

Category	Specific Feature/Aspect	Linkage	IP	v1	v2	v3
	<ul style="list-style-type: none"> • Real-time "reverse auction" to Marketers of current (or predictive) "demand": <ul style="list-style-type: none"> – Marketers "bid" to take top/featured offer position to reach "Best Prospects" (e.g., people in the market to buy a Suburban Sports Vehicle) – For which marketer gives "best deal" to our users and to the System – I.e., for enhanced presentation by the marketer – Or, "On Request Featured Offers" • Method for system to set terms/time period for "access" 		5		Y	
Extension of On Request Information Utility To	<ul style="list-style-type: none"> • Extension of On Request Utility for enabling users to request that a given web site/information provider/marketer automatically send updates to the user via eMessaging system, alerting the user to new information in the area/category of interest 		4			Y
Outside Web-based Content Providers	<ul style="list-style-type: none"> – Means of scoring the updated information based on degree to which it fits the full criteria of the user's request. (deploying SAIC's patented MIST technology to facilitate for such comparisons) – Use of such scoring schema to designate a priority level for such information and the transmission of same, according to user-defined priority rules (e.g., Priority Level I: forward to my wireless PDA) 					

Category	Specific Feature/Aspect	Linkage	IP	v1	v2	v3
In-box AMR Identifier	<ul style="list-style-type: none"> • Use of icon in inbox to designate delivery of e-mails or eMessages from the on-request utility—gives user a reminder that it is a fulfilled request. 		5	Y		
Allocation Method For On Request eMessaging	<ul style="list-style-type: none"> • Method for allocating and balancing use of/delivery of informational "inventory" from multiple advertisers in same category, stored on central database to the requesting user by e-mail/electronic messaging 		5	Y		
Delivery	<ul style="list-style-type: none"> - User request ("demand") and marketer information ("supply"): coordinated by set of "rules" <ul style="list-style-type: none"> • By individual user <ul style="list-style-type: none"> - E.g., don't repeat same e-mail; send e-mail #1 from Advertiser A on first day, e-mail #2 from Advertiser B on second day • By segments of users • By advertiser-supplied aggregating criteria • By customer list of Affinity/3rd party organization/marketing entity <ul style="list-style-type: none"> - Current/Former customer or member - Unique/Prospect - Capability to tie together combinations of the above 		5	Y		
			4	Y		
			4	Y		
			4	Y		
			4			
			4	Y		

Category	Specific Feature/Aspect	Linkage	IP	v1	v2	v3
	• Delete without opening	Method for "storing"	5		Y	
	• Delete after opening		5	Y		
	• Time stamp action(s)		5	Y		
	• Respond		5	Y		
	• Forward/Copy		5	Y		
	• Store		5	Y		
	• Print		4	Y		
	– Within situation where On Request Utility does not control is not integrated with interface (e.g., via an embedded code that sends "message" back to On Request server if e-mail/eMessage is opened)		4			Y
	• Delete without opening	Method for "storing"	5		Y	
	• Delete after opening		5	Y		
	• Time stamp action(s)		5	Y		
	• Respond		5	Y		
	• Forward/Copy		5	Y		

Category	Specific Feature/Aspect	Linkage	IP	v1	v2	v3
	• Store		5	Y		
	• Print		4	Y		
	• Ability to apply this tracking to other (non-opt-in) e-mail/eMessaging		4	Y		
	– As approved by/opted-in by user to protect his privacy					
On Request eMessage	• Method whereby user may determine delivery to alternative "devices" (à la "unified messaging") for On Request Utility:		5			Y
Delivery To Alternate User	– Via e-mail to prime e-mail account whether protected by an Authentication system or not		5			Y
Device(s)	– Via wireless device (PDA; Cell phone; Blackberry unit, etc.)		5			Y
	– Via pager		5			Y
	– Via TV/Digital TV		5			Y
	• Addressable Advertising System		5			Y
	– Via WebTV		5			Y
	– To On Request web site "personal box" ("Web Storage Box")		5			Y
	– Via voicemail/phone (automated/non-automated)		5			Y
	• Land line					
	• Cellular					

Category	Specific Feature/Aspect	Linkage	IP	v1	v2	v3
	<ul style="list-style-type: none"> - Via Facsimile 		5			Y
	<ul style="list-style-type: none"> • Mechanism to "turn on/turn off" any delivery mix 		5			Y
	<ul style="list-style-type: none"> - For all requests 		5			
	<ul style="list-style-type: none"> - For time period 		5			
	<ul style="list-style-type: none"> - For "X" request 		5			
	<ul style="list-style-type: none"> • Mechanism to have a "cascading" instruction for where to deliver 		5			Y
	<ul style="list-style-type: none"> - User input on customization screen 		4			Y
	<ul style="list-style-type: none"> - Priority #1: Authentication-protected account <ul style="list-style-type: none"> • Or, to PDA for "hot" information 		5			
	<ul style="list-style-type: none"> - Ability to determine if information was checked <ul style="list-style-type: none"> • If not opened within 30 minutes...send again, but to alternate device 		4			Y
	<ul style="list-style-type: none"> - Default to send via pager, etc. 		4			Y
Feedback From User Re: Requested Information	<ul style="list-style-type: none"> • Means by which the recipient of requested communication from the On Request Utility can provide immediate feedback on the quality of the information provided 		5		Y	
	<ul style="list-style-type: none"> - On-screen pop-up "fill-in" form 		5			Y

Category	Specific Feature/Aspect	Linkage	IP	v1	v2	v3
Quality	– Form at bottom of e-mail/eMessaging "frame"		5	Y		
	– Incentive to fill in/no incentive		5	Y		
	• Advertiser pays/system pays					
	• Collection of such feedback per user		5	Y		
	– Aggregated to segment					
Banner Ad Cross-Linkage Within	– Aggregated to category					
	• Intelligent profiling for future request fulfillment		5	Y		
	– Integrate with intelligent database mining					
	• Proactive surveying of users—i.e., "In last 'X' months did you purchase a car/what make?"		5	Y		
	• Method for banner ad "pre-support" of On Request Utility		5	Y		
eMessaging System That Includes On	– That is, system "promotes" via banner ad the use of the On Request Utility functions or specific "categories" of request		5	Y		
	• Incentivizes it					
	• Highlights special offers...collaborative filtering to select?					

Category	Specific Feature/Aspect	Linkage	IP	v1	v2	v3
Request	<ul style="list-style-type: none"> Supports use in general of the On Request Utility 		5	Y		
Utility	<ul style="list-style-type: none"> Method to "post-support" specific Request(s) and their fulfillment by X, Y, Z marketer—that is, to run banner ads after the user receives the information requested by e-mail/eMessages 		5	Y		
Control Over Advanced eMessaging	<ul style="list-style-type: none"> Mechanism to "limit" On Request e-mail/eMessaging formats according to advertiser contract; e.g., for "X" period of exclusivity, "Y" category 		5	Y		
Formats Within	<ul style="list-style-type: none"> HTML 					
On Request	<ul style="list-style-type: none"> Video 					
Utility	<ul style="list-style-type: none"> Audio Enhanced navigable video (v.3.0?) 					
	<ul style="list-style-type: none"> Curriculum e-mail 		5			Y
	<ul style="list-style-type: none"> Method for providing personal information input for first e-mail 					
	<ul style="list-style-type: none"> Survey 1st/driving "first contact" 					
	<ul style="list-style-type: none"> Sequential/seriotic e-mail/eMessaging (pre-designated series of HTML e-mails to tell "sales story" 		5		Y	
Special Rate Charges to Advertiser	<ul style="list-style-type: none"> Means by which to establish, verify and bill advertisers for enhanced types of e-mail/eMessaging targeting, format or in-series presentations 		5		Y	

Category	Specific Feature/Aspect	Linkage	IP	v1	v2	v3
For Enhanced Targeting/Message	<ul style="list-style-type: none"> Intentionality Level <ul style="list-style-type: none"> Pay more to reach prospects "closer to a purchase" 		5		Y	
Formats For	<ul style="list-style-type: none"> Charge for key demos/buyer-prospect behaviors 		5		Y	
Use Of On Request Utility	<ul style="list-style-type: none"> Means to charge for "forwards" (1X) Curriculum e-mail/eMessaging (iteratively customized series of e-mails/eMessages triggered by initial response to a profiling survey) <ul style="list-style-type: none"> Seriotic e-mail/eMessaging 		5	Y		Y
Advertiser/Marketer Interaction with On-Request Utility	<ul style="list-style-type: none"> Rich media e-mail/eMessaging formats—HTML/Video; audio Means for advertiser to set budget and other targets: <ul style="list-style-type: none"> Frequency Reach Goals Start/end date Demo targets (priority) 		5	Y		

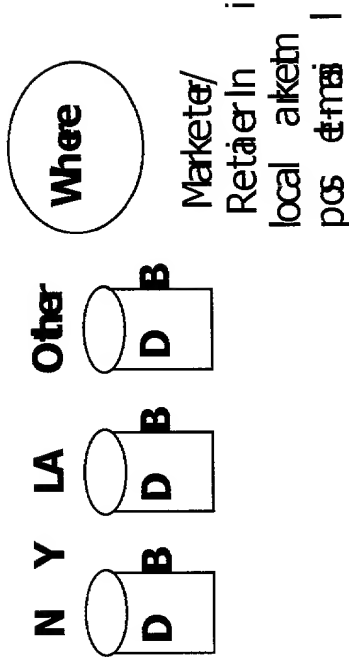
Category	Specific Feature/Aspect	Linkage	IP	v1	v2	v3
	<ul style="list-style-type: none"> Means for advertiser—in real time—to check-in and determine progress in achieving his promotion objectives/budget Means for system to continue to “service” the marketer’s e-mail (pool) until the budget or objective “cut off” Means for system to be predictive and proactive with respect to approaching of budget cut off and to send e-mail (other contact communications) to Advertiser/Agency Means for advertiser to establish/populate/update a “pool” of e-mails for rotation Means to post-updates to central facility <ul style="list-style-type: none"> Subject to “Quality Assurance” procedure by System Administrator Means to prioritize e-mail eMessages of advertiser content by Delivery Mode <ul style="list-style-type: none"> E.g., to mobile users Means for advertiser/agency to revise the plan online <ul style="list-style-type: none"> Recap 		5	Y	Y	Y
			5	Y		
			5		Y	
			5	Y		
			5	Y		
			5			Y
			3		Y	

Category	Specific Feature/Aspect	Linkage	IP	v1	v2	v3
Anonymous Response By User To Information Provided On Behalf of Content Providers/Advertisers Via On Request System	<ul style="list-style-type: none"> Means to enable users to respond anonymously via Response Center to information forwarded by On Request Utility 		5	Y		
	<ul style="list-style-type: none"> <ul style="list-style-type: none"> System then secures further information from advertiser and forwards to the e-mail/eMessaging user/respondent 					
	<ul style="list-style-type: none"> Means to enable users to use a request form provided by On Request Utility <ul style="list-style-type: none"> Like a frame at bottom of e-mail or pop-up 		5	Y		
	<ul style="list-style-type: none"> Method for aggregating responses to provide to marketer who has yet to contract with On Request Utility or has low value contract at present 		5	Y		
	<ul style="list-style-type: none"> Application of patented "1X Reply e-mail/eMessaging option to On Request Utility 		5	Y		
Mobile/PDA Application of On Request	<ul style="list-style-type: none"> Method to facilitate "Just-In-Time On Request" e-mail/eMessaging for mobile communications device(s)—given that wireless units will be able to identify where users are located geographically 	Notify	5		Y	

Category	Specific Feature/Aspect	Linkage	IP	v1	v2	v3
Information System	<ul style="list-style-type: none"> • Mechanism for users to establish pre-set on request "categories" desired for information to be delivered to their mobile device(s) <ul style="list-style-type: none"> – When in X,Y,Z geography <ul style="list-style-type: none"> • Local market application (tie-in with newspaper, local radio, yellow pages) – When "planning" to be in X,Y,Z – Priority: only send e-mail/eMessaging related to "deals;" or that meet 100% of my request criteria – Geography defined by City, Town and GPS cellular translation – "Reverse Opt-in": if sale started yesterday, tell me— what specials/events are currently happening <ul style="list-style-type: none"> • E.g., theatre venues, restaurant, specialty goods, sales events; community events, local retailers – Blackberry units/PDA-Palm/Cellular, pager or forwards to user's laptop (i.e., wired account) – Time of day – Date/period of days <ul style="list-style-type: none"> • Specifically defined • Repetitive ("every Wednesday") 		5		Y	
			5		Y	
			5			Y
			5		Y	
			5		Y	
			5			Y
			5			
			5		Y	
			5		Y	
			5		Y	
			5		Y	
			5			Y

Category	Specific Feature/Aspect	Linkage	IP	v1	v2	v3
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Local Market— Just-In-Time On Request Information eMessaging Utility	<ul style="list-style-type: none"> Method for On Request Utility to function in remote cities (i.e., when user is traveling) <ul style="list-style-type: none"> Mechanism to pre-set system to trigger requested categories when portable device is in other city, e.g., "when in LA, get me deals on Dodgers games..." Method by which user may input requested information categories, preferences, criteria and priorities via On Request Utility at web site, e-mail interface, browser embodiment System is tied into the cellular network 		5			Y
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- Local Newspaper tie-in
- When:
 - Early am

Category	Specific Feature/Aspect	Linkage	IP	v1	v2	v3
	<ul style="list-style-type: none"> • PM • Late PM • Ongoing 					
	<ul style="list-style-type: none"> • Date/period of days 					
	<ul style="list-style-type: none"> • User Opt-in <ul style="list-style-type: none"> – When user is in his home market – Outside Market 					
	<ul style="list-style-type: none"> • Just-In-Time Opt-in Delivery to Device(s) of preference <ul style="list-style-type: none"> – Wireless – PDA – Laptop 					
What	<ul style="list-style-type: none"> • Alert user to relevant info "opted in" <ul style="list-style-type: none"> – Theatre – Nearby restaurants – Sports Events – Retail categories user is interested in 					

Category	Specific Feature/Aspect	Linkage	IP	v1	v2	v3
	<ul style="list-style-type: none"> – Web site hot offers <ul style="list-style-type: none"> • i.e., not geographically specific • Geo-specific 					
How	<ul style="list-style-type: none"> • Controls <ul style="list-style-type: none"> – A lot/a little—proactive—continuous – Upcoming events – Reverse J-I-T: even if event started, but is still “alive” 					
Customized Electronic Incentive Voucher	<ul style="list-style-type: none"> • Method to send an electronic refund/coupon value voucher to individuals for use with On Request Utility/System (and also outside of such a system) <ul style="list-style-type: none"> – Within Intentionality levels – Customize “Motivational Incentive Required for Action” – Provides “feedback”/validation for system to “know” purchase has been made and to participate in promotional dollars (e.g. “Preferred Offer”) (MIRA) <ul style="list-style-type: none"> • Tiered by some logic (“distance” from purchase time; geography) • Not tiered 		5		Y	

Category	Specific Feature/Aspect	Linkage	IP	v1	v2	v3
Proactive Solicitation by On Request System of User's Interest	<ul style="list-style-type: none"> Method by which On Request Utility proactively, directly polls via e-mail/eMessaging, from time to time, users asking, for example: <ul style="list-style-type: none"> Do you want updates/offers from any of the following? <ul style="list-style-type: none"> Marketers, organizations (in preferred status) These entities offer to give member special offers/deals Enable companies to have their users self-identify "These companies are looking to contact you:" if interested the Request Utility can send e-mail/eMessaging 		4		Y	
On Request Internal System Capabilities	<ul style="list-style-type: none"> Means by which On Request system generates tracking code for each advertiser, each e-mail/eMessaging and each billing event 		3	Y		
	<ul style="list-style-type: none"> Each user is given his own On Request e-mail/eMessaging account for receipt/delivery and behavior tracking (see later entry) 		5	Y		
	<ul style="list-style-type: none"> B2B web site for advertisers where they can post their latest e-mail/eMessaging offers—onto the On Request Utility's central DB 		5	Y		
	<ul style="list-style-type: none"> Designed to become intelligent, self-learning system for relational electronic marketing <ul style="list-style-type: none"> PIN access 		5		Y	

Category	Specific Feature/Aspect	Linkage	IP	v1	v2	v3
	– Enrollment					
	– Quality assurance function					
	• Polling of central database where commercial e-mails/eMessages are posted		5	Y		
	• Same, but using distributed databases (clusters)		5		Y	
	• Method to re-aggregate users into “better quality” targeting pool “on the fly” to optimize advertiser performance		5		Y	
“Targeting Pool” Re-Aggregation With On Request Utility	– Segmenting or creating the hierarchical prospectivity pool					
	– Use of NCM systems for optimization					
	• Method for using duration/amount of information requested as predictive for Intentionality Quotient/Level of Intentionality		5		Y	
	• Ergo, advertiser who wants to spend only \$25,000 gets the “cream” first, then less highly intentioned users		5		Y	
	– Pay for the “cream” first, then for the “milk”					
Networking Together Multiple	• Method for networking together numerous On Request Utility applications and their respective user bases to enable:					
	– System Integration					

Category	Specific Feature/Aspect	Linkage	IP	v1	v2	v3
Applications	– Scale economies					
And	– Aggregation of information demand					
Embodiments of On Request Utility	– Aggregation of audience for advertiser “reach” requirements					
On Request Message Customization	<ul style="list-style-type: none"> • Method for customizing elements of the e-mail/eMessage to different users, (delivered as a result of user employment of On Request Utility) according to: <ul style="list-style-type: none"> – Content – Offer – Price – Etc. • Method for customization of message driven by “knowledge” of user 		5		Y	
Expandable Input Form for On Request Utility	<ul style="list-style-type: none"> • Means of expanding the size of an input form for an On Request Information utility <ul style="list-style-type: none"> – The form appears as part of the GUI – Or, it may be embodied as a pull-down from the browser 		5		Y	

Category	Specific Feature/Aspect	Linkage	IP	v1	v2	v3
	<ul style="list-style-type: none"> – Or, it may be embodied as a pop-up or window – Or, it may be embodied as a third party web site/portal functionality – Or, it may be embodied as its own self-standing web site or portal 					
	<ul style="list-style-type: none"> • The input form has an irreducible size in which its basic functions are incorporated <ul style="list-style-type: none"> – As the user designates active requests, the area in which the list of active requests appears will expand in size – This expansion will continue to some system-designated limit (e.g., 4-6 lines) <ul style="list-style-type: none"> • Whereupon, any additional active requests will be available by scrolling up or down 					
Application of SAIC's MISTI to On Request eMessaging Information System	<ul style="list-style-type: none"> • Means by which MISTI (patented) can serve as natural language input and search system for On Request Utility <ul style="list-style-type: none"> – First polls On Request Utility "Central Posting DB" for relevant offers – Searches Web for "same" 		?		Y	

Category	Specific Feature/Aspect	Linkage	IP	v1	v2	v3
	<ul style="list-style-type: none"> - Polls/compares - Selects for each user a "set" - Extracts web site info and "repackages" as e-mail/eMessage <ul style="list-style-type: none"> · Within On Request Utility's "format" - User may respond via Utility - Request Utility "forwards" to marketer the "responses" <ul style="list-style-type: none"> · Leverage for signing an advertising "contract" - Question: can MISTI put "metatags" in place or must that be done by the information source/provider itself? 					